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FUEL BESPOKE 2 S.L.
C/ D'URGELL 282 6A
08036 BARCELONA
Spain

22/01/2025

Dear Isidoro Reyes de Zuloaga

**EU Module B Type examination certificate(s)**

Following review of your technical file please find attached the following EU Module B type examination certificate (s).

| Certificate | Models |
|---|---|
| 2777/26648-01/E00-00 | FXRE Miles Pants |

The product(s) covered by the certificates listed above may now be CE marked provided that:

1) An EU declaration of conformity according to Regulation 2016/425 Annex IX is completed and signed by yourself and retained with the approved technical file. This shall be made available to the end user either in hard copy or via a website link in the Manufacturer's instruction and information.
2) A copy of the manufacturer's instruction and information, as included in the approved technical file, is supplied with the products. This information shall be provided in at least the official language(s) of the member state of destination.
3) The products are marked or labelled in accordance with the approved technical file.
4) The design remains unchanged and in accordance with the approved technical file.
5) Where results obtained during type testing have been highlighted as being within the budget of uncertainty when compared to the pass or fail requirement, classification, or performance level, then the factory production control and manufacturing tolerances shall be such that the product placed on the market meets with the stated requirements, classifications, or performance levels.
6) For category III PPE, (except that specifically produced to fit an individual user), it is supported by documentation to show compliance with module C2 or Module D of regulation 2016/425.
7) If the above listed certificate(s) are transfers from SATRA Technology Centre UK (Notified body 0321) to SATRA Technology Europe (Notified Body 2777) please be aware that the associated original SATRA Technology Centre UK certificate is now invalid and considered as withdrawn.

**Please note:**
**An EU module B type examination certificate is based on testing of a model of the product and in itself does not represent any assessment of bulk production.**
**The manufacturer remains responsible for ensuring conformity of the PPE produced with the design specifications. Information relating to quality control activities is required to be included within the technical documentation held by the manufacturer, but any such information submitted to SATRA will not have been assessed as part of the EU type examination.**

Yours sincerely,

Arzu Arman
Product Certification.

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# Application for a Module B Type-Examination Certificate

In accordance with the Personal Protective Equipment Regulation (EU) 2016/425 and or Regulation 2016/425 on personal protective equipment, as amended to apply in GB. Hereafter referred to as the PPE Regulation.

This application and the subsequent certification will only address the obligations under the PPE Regulation.
It is the responsibility of the manufacturer to ensure that all other legislative requirements and claims, including those relating to shelf life are met.

Please note that all relevant sections of this application should be completed in full. Failure to complete all relevant sections shall result in the rejection of this application.

Please ensure that when referencing a standard, the full standard reference and publication date are recorded within this application. Where the full standard reference and publication date are not included, this application shall be rejected.

Where an expiry date for the presumption of conformity on a previous version of a standard has been published then SATRA will not reissue a certificate or provide own brand/extension certificates that lists the expired standard past this date.

Please indicate which Notified Body and or Approved Body this application relates. Where the application is for both EU and UKCA type examination then please tick both.

Please note that by ticking the box for UKCA type examination you are confirming that you have considered the legislative changes regarding the indefinite continued recognition of current EU requirements, including the CE marking – Full details of which can be found at Placing manufactured products on the market in Great Britain - GOV.UK and that you wish SATRA to proceed with this application.

| | | |
|---|---|---|
| SATRA Technology Europe Limited, Notified Body 2777 | **EU Type Examination** | ☒ |
| SATRA Technology Centre Limited, Approved Body 0321 | **UKCA Type Examination** | ☐ |

Where a certificate is suspended or withdrawn then SATRA reserves the right to inform all extension holders of the suspension and or withdrawal. This includes the reason for the suspension or withdrawal, where requested by the extension holder(s).

### Guidance on the completion of this form

| Application type | Service Requested | Sections to be completed | Submission requirements |
|---|---|---|---|
| Initial type-examination certificate | ☒ | Section 1<br>Section 2<br>Section 6<br>Section 7 | • Completed and signed application form,<br>• Example of product (s),<br>• Complete technical documentation as per Annex III of the PPE Regulation. See guidance below for required content,<br>• If classed as 'category III' PPE as per Annex I of the PPE regulation, a completed module C2/D application form should be submitted. |
| Review and reissue of existing type-examination and/or Own Brand Manufacturer (extension) certificate/s | ☐ | Section 1<br>Section 3<br>Section 7 | • Completed and signed application form,<br>• Example of products (s),,<br>• Amendments to technical documentation. |

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| | | | |
|---|---|---|---|
| Transfer of existing type-examination certificate to SATRA | ☐ | Section 1<br>Section 4<br>Section 6<br>Section 7 | • Completed and signed application form<br>• Example of product (s),<br>• Copy of the approved technical documentation as per Annex III of the PPE Regulation. See guidance below for required content,<br>• Copy of certificate to be transferred,<br>• If classed as 'category III' PPE as per Annex I of the PPE regulation, a completed module C2/D application form should be submitted. |
| Own Brand Manufacturer (extension) type-examination certificate | ☐ | Section 1<br>Section 5<br>Section 6<br>Section 7 | • Completed and signed application form,<br>• Copy of OBM proposed artwork for user information, product marking and packaging,<br>• If classed as 'category III' PPE as per Annex I of the PPE regulation, a completed module C2/D application form should be submitted. |

## Guidance on the technical documentation required by Annex III of the PPE Regulation

The information below has been copied from Annex III of the PPE Regulation and is intended to provide guidance on the content of technical documentation (often referred to as the technical file) that is required to be submitted as part of the type examination application. SATRA can provide upon request a template technical file to aid with the collation of the required documentation.

a) A complete description of the PPE and of its intended use;
b) An assessment of the risks against which the PPE is intended to protect;
c) A list of the essential health and safety requirements that are applicable to the PPE;
d) Design and manufacturing drawings and schemes of the PPE and of its components, sub-assemblies, and circuits;
e) Any explanations necessary for the understanding of the drawings and schemes referred to in point (d) and of the operation of the PPE;
f) The references of the harmonised standards referred to in Article 14 that have been applied for the design and manufacture of the PPE. In the event of partial application of harmonised standards, the documentation shall specify the parts which have been applied;
g) Where harmonised standards have not been applied or have been only partially applied, descriptions of the other technical specifications that have been applied in order to satisfy the applicable essential health and safety requirements; the results of the design calculations, inspections and examinations carried out to verify the conformity of the PPE with the applicable essential health and safety requirements;
h) Reports on the tests carried out to verify the conformity of the PPE with the applicable essential health and safety requirements and, where appropriate, to establish the relevant protection class;
i) A description of the means used by the manufacturer during the production of the PPE to ensure the conformity of the PPE produced with the design specifications;
j) A copy of the manufacturer's instructions and information set out in point 1.4 of Annex II;
k) For PPE produced as a single unit to fit an individual user, all the necessary instructions for manufacturing such PPE based on the approved basic model;
l) For PPE produced in series where each item is adapted to fit an individual user, a description of the measures to be taken by the manufacturer during the fitting and production process to ensure that each item of PPE complies with the approved type and with the applicable essential health and safety requirements.

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**Certification Sample Shipping Guidance**

A single sample of each product must be supplied to SATRA's Certification team using the shipping details below. A corresponding sample submission form should be included within packaging and a digital copy sent ahead of shipping via email.

The following declaration should be clearly stated on the packaging and associated paperwork: **'Goods of no commercial value for testing under procedure code CPC4000C33'.**

**FAO:** PPE Certification
**Ship to:**
SATRA Technology Centre Ltd
Wyndham Way
Kettering, Northamptonshire
NN16 8SD
United Kingdom

**Please note:** Samples are non-returnable and will be destroyed following completion of the type-examination.

## Section 1 – Applicant details

**Section 1.1 Applicant**
Details of the applicant to whom the certificates are to be issued, or in the case of an extension application the holder of the main type-examination certificate.

| | | | |
|---|---|---|---|
| **Company Name** | Fuel Bespoke 2 S.L. | | |
| **Address Line 1** | C/ D'Urgell 282 6a | | |
| **Address Line 2** | | | |
| **City** | Barcelona | **Country** | Spain |
| **County/State/Province** | | **Postal Code / ZIP** | 08036 |
| **Telephone** | 01179770466 | **Email** | isidoro@fuelmotorcycles.eu |
| **Contact Name** | Isidoro Reyes de Zuloaga | **Position** | Business Development Manager |

All correspondence relating to this application shall be with the above-named applicant, unless specifically stated below.

**Section 1.2 Correspondence**
I request that correspondence relating to this application is to be shared with the following company(ies)/contact(s):

| Company Name | Contact Name | Email Address |
|---|---|---|
| Mir Yousaf | Maroof Mir | maroof@miryousaf.com |
| Fuel Bespoke 2 S.L. | Isidoro Reyes de Zuloaga | isidoro@fuelmotorcycles.eu |
| | | |

Where additional correspondence has been requested then this shall be on a shared basis.

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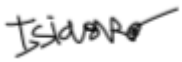
**Section 1.3 – Invoice details (to be completed if different to the applicant in section 1.1)**
Details of the company that is responsible for paying all fees and to whom the invoice shall be issued. Correspondence shall only be with the applicant listed in section 1.1 plus any additional contacts provided in section 1.2.

| | | | |
|---|---|---|---|
| **Company Name** | | | |
| **Relationship to applicant** | | | |
| **Address Line 1** | | | |
| **Address Line 2** | | | |
| **City** | | **Country** | |
| **County/State/Province** | | **Post Code / ZIP** | |
| **Telephone** | | **Email** | |
| **Contact Name** | | **Position** | |

| I have read and agree to the applicable declarations listed under section 7 of this form. | | | |
|---|---|---|---|
| **Signature** |  | **Date** | 07/01/2025 |
| **Print Name** | Isidoro Reyes de Zuloaga | **Position** | Business Development Manager |

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## Section 2 – Application for initial type-examination certificate

Please include all details of the product(s) to be certified:

| Product Reference (1) | Product Description | Product Standard (s) (2) |
|---|---|---|
| FXRE Miles Pant | Motorcyclists' Protective Pant | EN 17092-3:2020 |
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**Notes**

1) The reference, code, or name by which products can be uniquely identified.

2) The product standard to which certification is sought. If a harmonised or designated standard does not exist or has not been fully used then reference shall be made to the section of the technical file where this has been documented and justified.

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## Section 3 - Application for review and reissue of existing type examination

Details of certificate/s to be reviewed and reissued:

| Certificate Number(s) (1) | Expiry Date | Reason for revie and reissue (2) |
|---|---|---|
| | | Choose an item. |
| | | Details of the change(s) |
| | | Choose an item. |
| | | Details of the change(s) |
| | | Choose an item. |
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| | | Choose an item. |
| | | Details of the change(s) |
| | | Choose an item. |
| | | Details of the change(s) |

Please submit a full copy of the technical documentation showing all amendments relating to the above certificate(s). with this application.

Please list all changes that you wish to be considered as part of this application. Only these changes shall be considered.

Where the application relates to expiry of a certificate and there have been no modifications or changes to the approved technical documents or products since the issue of the type-examination certificate(s), (e.g., design, materials, suppliers, sub-components/assemblies, production locations) then please write “no changes”. Please note that where no changes have been made a full copy of the most recent technical documentation will still be required to be submitted.

Where there is an Own Brand Manufacturer (extension) certificate associated with any of the above listed certificates then consideration shall be given to their ongoing validity and where appropriate an extension application completed and submitted.

If there is insufficient space above then please supply additional information as an attachment, clearly referencing all attachment/s within the table above.

Notes

(1) Please include the certificate number of all certificates that require review and reissue.
(2) Please select the option that relates to the reason for the review and reissue being required.

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## Section 4 – Application for transfer of existing type-examination

Details of the certificate(s) to be transferred, including where not SATRA details of the issuing body.

| Certificate Number | Product Reference (1) | Name of Notified or Approved body that issued certificate (if not SATRA) |
|---|---|---|
| | | |
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|---|---|---|---|---|
| Have there been any modifications or changes to the approved technical documents or products since the issue of the type examination certificate(s)? (e.g., design, materials, suppliers, sub-components/assemblies, production locations) | Yes | ☐ | No | ☐ |
| If yes, then please provide further details of the changes and or modifications: | | | | |

Where the issuing body listed above is not SATRA then a copy of the issued certificate to be transferred along with a full copy of the current technical documentation shall be provided as part of this application

Notes

1) The reference, code, or name by which products can be uniquely identified.

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## Section 5 – Application for Own Brand/Extension of existing type-examination

**Section 5.1 Extension certificate details (Company to receive the extension certificate)**

| | | | |
|---|---|---|---|
| **Company Name** | | | |
| **Address Line 1** | | | |
| **Address Line 2** | | | |
| **City** | | **Country** | |
| **County/State/Province** | | **Postal Code / ZIP** | |
| **Telephone** | | **Email** | |
| **Contact Name** | | **Position** | |

**Section 5.2 – Certificate details**

| Original certificate number(s) | Original certificate product reference(s) | Extension (OBM) product reference(s) |
|---|---|---|
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SATRA will only issue an own brand/extension certificate where this is a duplicate of the main holders' certificates, minor amendments may be considered where these do not affect the claims made. Where amendments are required then please speak with your assessor to discuss this.



EXAMINED BY SATRA - DO NOT AMEND

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**Section 5.3 Extension application declaration.**

To be signed by the company to whom the extension type-examination certificate will be issued.

I, the undersigned:

1) Confirm that the extension certificate(s) will only be used to support the affixation of the CE or UKCA mark to products that have been supplied by the holder of the Module B Type Examination Certificate(s) referenced in Section 1 above and declared by them to have been manufactured in accordance with the technical documentation associated with the referenced Module B type-examination certificate(s) in section 5.2.
2) Confirm that for Category III products, a formal application regarding Module C2 or Module D assessment, as appropriate has been established with a Notified or Approved Body. (Note this could be based on an existing application between the company in Section 1 and a Notified or Approved Body)
3) Agree to provide copies of the proposed product marking and user information as intended for the products covered by the extension certificate(s).

| I have read and agree to the applicable declarations listed under section 7 of this form. | | | |
|---|---|---|---|
| **Signature** | | **Date** | |
| **Print Name** | | **Position** | |

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## Section 6 – Ongoing conformity

To be completed for category III products only (as defined in Annex I of the PPE Regulation)
Please tick and complete one of the 4 following options

| | | |
|---|---|---|
| **Option 1** | Module C2 with SATRA | ☐ |
| **Option 2** | Module D with SATRA (Module D not currently in place with SATRA) | ☐ |
| **Option 3** | Module D with SATRA (Module D currently in place with SATRA) | ☐ |
| **Option 4** | Module C2 or D with another Notified or Approved body (i.e., Not SATRA)<br>Please include Notified or Approved body number | ☐<br># |

Where a Notified or Approved Body other than SATRA is selected for ongoing conformity then it should be noted that SATRA CANNOT approve the use of the Notified or Approved Body number on marking, user information or packaging. The applicant is required to seek approval directly from the body listed above. SATRA reserves the right to ask for evidence of approval.

Where options 1 or 2 are selected a separate application shall be provided, this shall be required to be completed and returned prior to the type-examination certificate being issued.

Please note that a valid certificate and or test report confirming conformity with Module C2, or Module D is required prior to placing product on the market. As such SATRA will request samples for Module C2 or initiate arranging a module D audit immediately on issue of the module B certificate.

**Definition of products that fall within Category III as per Annex I of the PPE Regulation**

a) Substances and mixtures which are hazardous to health,
b) Atmospheres with oxygen deficiency,
c) Harmful biological agents,
d) Ionising radiation,
e) High-temperature environments the effects of which are comparable to those of an air temperature of at least 100 °C,
f) Low-temperature environments the effects of which are comparable to those of an air temperature of –50 °C or less,
g) Falling from a height,
h) Electric shock and live working,
i) Drowning,
j) Cuts by hand-held chainsaws,
k) High-pressure jets,
l) Bullet wounds or knife stabs,
m) Harmful noise.

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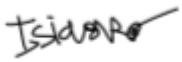
## Section 7 – Declaration

1) I declare that an application for an initial Module B type-examination certification for the product(s) listed in this form has NOT been made to any other Notified or Approved Body under the terms of the PPE Regulation;
2) I understand that all technical documentation shall be reviewed at the same time. SATRA cannot accept requests to review or comment on individual documents outside of this formal review.
3) I agree to provide an example of the product(s) listed in this form as part of the initial application plus as many samples as required for testing purposes identified as part of the certification process and where SATRA is the test lab;
4) I confirm that samples comply with the innocuousness requirements of Annex II of the PPE Regulation;
5) I confirm that I have read, understood, and agree to abide by the content of the certification agreement included as Appendix 1 of this document;
6) I declare that SATRA have not been involved in the design process for the product(s) listed in this form;
7) I agree to comply with all obligations of a manufacturer as detailed in Article 8 of the PPE Regulation (and as copied out under section 5 of the certification agreement);
8) I agree that technical information and documents relating to this application may be shared internally within the SATRA group of companies;
9) I agree to address all findings identified within SATRA's review report(s) within 3 months of the date of issue of the report;
10) I agree that failure to address all findings within the required timeframe shall be assumed by SATRA as a wish to cancel this application which shall result in closure of the associated SATRA reference number, at which point, an invoice shall be issued for the full certification cost. Any associated payments received in relation to this application are non-refundable and non-transferable. Please note that upon cancellation, any product samples submitted to SATRA in relation to this application shall be disposed;
11) I agree that any request to resume a cancelled application shall require the submission of a new application.

To be completed by the applicant as listed in section 1.1.

| | | | |
|---|---|---|---|
| **Signature** |  | **Date** | 07/01/2025 |
| **Print Name** | Isidoro Reyes de Zuloaga | **Position** | Business Development Manager |

**Please return the completed application form, together with a copy of your technical documentation to ppe@satra.com.**

**Guidance relating to the submission of samples will be provided upon receipt of this application by SATRA.**

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**Appendix 1 – Certification agreement**

**1. General**

1.1 By signing this application form, the applicant (hereafter known as the 'Client') shall accept the application and Certification Agreement as a legally binding contract between SATRA Technology Centre Limited and or SATRA Technology Europe Ltd (hereafter referred as 'SATRA') and the 'Name of company' as stated in the 'Applicant Details' on Page 1 of the Application Form.

1.2 Where referenced within this document the SATRA Group of companies refers to SATRA Technology Centre Limited, SATRA Technology Europe Limited and SATRA Technology Services (Dongguan) Limited.

1.3 EU or UKCA module B Type Examination work will not be carried out for any Client until a fully completed and signed Application Form (and Certification Agreement) has been received by SATRA.

a) and or reinstatement of a certificate
b) Reassessment due to changes in the management system or products certified
c) Compliance with any subpoena for documents or testimony relating to activities undertaken by SATRA

**2. Client Responsibilities**

**The Client shall:**

2.1 Undertake to pay all agreed fees and costs charged in conjunction with this application and where applicable to provide free of charge any samples required for testing purposes.

Additional fees may be incurred for work not included within the quote provided and for work required where non-conformances are identified. These may include, without limitation, costs arising from:

a) Repeats of any part of the certification, due to the registration procedures and rules not being met
b) Additional work due to suspension, withdrawal and or reinstatement of a certificate
c) Reassessment due to changes in the management system or products certified
d) Compliance with any subpoena for documents or testimony relating to activities undertaken by SATRA

2.2 Inform SATRA, without delay, of any changes that may affect its ability to conform with the certification requirements, including changes significantly affecting the product's design or specification, or changes in the standards to which compliance of the product is relevant, or in the case of any other information indicating that the product may no longer comply with the requirements of the certification scheme.

Examples of changes may include the following:

a) the legal, commercial, organisational status or ownership,
b) organisation and management (e.g., key managerial or technical staff),
c) modifications to the product or the production method,
d) contact address and manufacturing sites,
e) major changes to the quality management system.

Where changes have taken place, the Client shall not release CE or UKCA marked products until the appropriate changes to the certified product, as agreed by SATRA and the Client, have been implemented.

2.3 Where applicable, provide access to certified products for surveillance activities.

2.4 Ensure that the certified product shall continue to fulfill the requirements of the product certification (e.g., levels or classifications achieved as part of the certification process).

2.5 Make all necessary arrangements for:

a) the conduct of the evaluation and surveillance (if required), including provision for examining documentation and records, and access to the relevant equipment, location(s), area(s), personnel, and the Client's subcontractors;
b) the investigation of complaints;
c) the participation of observers, if applicable.

2.6 Provide any applicable information regarding known or potential hazards likely to be encountered by SATRA personnel as a result of handling or coming in to contact with submitted samples or during visits in order to allow SATRA to comply with Health and Safety legislation

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2.7 Take all steps necessary to ensure that the manufacturing process, including the final inspection of PPE and tests, ensures the homogeneity of production and the conformity of PPE with the type described in the Module B Type Examination Certificate and with the relevant basic requirements of the PPE Regulation.

2.8 Ensure that any claims regarding certified products are consistent with the scope of product certification with respect to the identification of:

a) the product(s), process (es) or services(s) for which the certification is granted;
b) the applicable certification scheme; and,
c) the standard(s) and other normative document(s) (including date of publication) to which the product(s); process(es) or service(s) has been judged to comply.

2.9 Not use its product certification in such a manner as to bring SATRA into disrepute and does not make any statement regarding its product certification that SATRA may consider misleading or unauthorised.

2.10 Upon suspension, withdrawal, or termination of certification, the Client discontinues its use of all advertising matter that contains any reference thereto and acts as required by the certification scheme (e.g., the return of certification documents) and takes any other required measure.

2.11 Only provide copies of the certification documents to others, if the documents are reproduced in their entirety.

2.12 In referring to its product certification in communication media such as documents, brochures or advertising, the Client complies with the requirements of SATRA or as specified by the certification scheme.

2.13 Comply with any requirements that may be prescribed in the certification scheme relating to the use of marks of conformity, and on information related to the product. These being:

2.13.1 The CE or UKCA Mark can only be applied to stationery and publicity material which relates to the products for which certification has been granted. This can include the internet, brochures, advertisements etc. We would advise any Client to contact us prior to printing if there is any doubt regarding the intended use. The misuse of the CE, UKCA or other marks could result in the issue of a requirement to withdraw offending items.

2.13.2 Where possible the minimum height of the CE or UKCA mark must be no less than 5mm and shall only be increased in proportion.

2.13.3 The CE, UKCA or other mark may not be used in any way that may be interpreted as misleading nor shall the client make any misleading statements regarding its certification

2.13.4 The use of SATRA's Notified Body or Approved body number after the CE or UKCA mark is restricted to those products defined as Category III Products and where SATRA is responsible for Module C2 or Module D. However, it may be used on user information of all certified products as a means of identifying SATRA as the type approval body and the Module C2 or D body.

2.13.5 Upon suspension or withdrawal of its certification, The Client shall discontinue its use of the CE or UKCA mark as directed by SATRA and shall amend all advertising matter when the scope of registration has been reduced. The Client shall ensure that the CE, UKCA or other marks are not used in such a manner that would bring SATRA into disrepute and lose public trust.

2.14 Uses certification only to indicate that products are certified as being in conformity with the PPE Regulation and where applicable specified standards.

2.15 Shall confirm that the samples submitted for any testing required as part of the certification process shall be representative of the product to be certified in respect of all its characteristics taken together, and be made from production tools and assembling methods used for the production run.

2.16 Retains a record of all non-conformities and complaints relating to certification requirements of the certified product(s) and makes these records available to SATRA when requested, and:

a) takes appropriate action with respect to such complaints about any deficiencies found in products that affect compliance with the requirements for certification;
b) documents the action taken.

2.17 Retain the EU or UKCA Certificate of Conformity (or a copy of it) for a minimum of 10 years after the product to which it relates is last placed on the market

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**3. SATRA Responsibilities**

3.1 SATRA shall inform the Client of any changes that may affect the validity of the product certification.

3.2 After confirming the acceptance of the application, the SATRA Assessor shall discuss and agree with the Client the responsibility for carrying out the various tasks according to the requirements of Annex II of the PPE Regulation as applicable. Where testing is required, this shall be carried out in accordance with SATRA Technology Centre Limited's ISO 17025 Quality system and procedures. SATRA reserves the right to sub-contract testing, where this is required then this shall be agreed with the Client.

3.3 SATRA shall carry out the certification process against an agreed product standard (s) or specification (s) where possible. The normal route shall be to use an English language version of the appropriate European Harmonised, or UK designated standard. National forewords to such standards will not normally be considered unless specifically requested by the Client. Other standards or technical specifications may be used, where this is deemed necessary then it shall be by mutual agreement with the Client. Whichever option is chosen it shall satisfy all the relevant requirements of the PPE Regulation. This shall also include appropriate test data to demonstrate that the materials used to construct the products do not contain substances that may cause harm and that they are in compliance with the current requirements of all applicable product standards as well as the current version of Annex XVII of the EU and or UK REACH Regulation.

3.4 SATRA shall retain copies of technical files for a minimum of 10 years after the product is last placed on the market and/or the EU or UKCA Module B Type Examination certificate is cancelled, withdrawn or expires, whichever comes sooner. Such documentation shall be made available to the Surveillance Authorities upon demand.

3.5 Where review of an existing certificate is requested, the Assessor shall send the Client an appropriate application form for completion and return. On return of the completed application form, the Assessor shall decide on whether reduced Certification Procedures may be undertaken and shall document the decision.

3.6 Where an extension to an existing certificate is requested, the Assessor shall send the Client an appropriate application form for completion and return.

3.7 Where SATRA becomes aware that a registered Client has misused a certificate, schedule, logo or accreditation mark, the Client shall be required to ensure that the misuse is rectified. Incorrect references to the certification system or misleading use of information found in advertisements, catalogues etc. shall be dealt by suitable means including corrective action, publication of the transgression and, if necessary, legal action.

3.8 Suspension, termination, and withdrawal of certificates

3.8.1 Where a certificate is suspended, terminated, or withdrawn then the Client has the right to appeal. The appeal shall be received in writing, by SATRA, within twenty-eight working days of the Client having being informed of the intention to suspend, withdraw, or terminate the certificate.

3.8.2 The outcome of an appeal shall be final and binding on both parties and no counter claim by either party shall be accepted. Where an appeal is successful, the Clients costs may be reimbursed at the discretion of SATRA.

3.8.3 Suspension of certificates.

3.8.3.1 A Clients EU or UKCA Module B Type Examination Certificate may be suspended for the following reasons:

- Contravention of SATRA's rules and regulations relating to product certification;
- Where effective corrective action is not implemented within an agreed timescale against a major non-compliance found during a surveillance visit.
- Where significant non-homogeneity is highlighted during on-going surveillance.

3.8.3.2 SATRA shall inform the Client in writing that their certificate has been suspended, the reason(s) for the suspension and the actions required to reinstate the certificate.

3.8.3.3 SATRA shall inform the appropriate notifying authority when a Client's certificate has been suspended.

3.8.3.4 If product certification is reinstated after suspension, SATRA shall make all necessary modifications to formal product certification documents, public information, authorisations for use of marks, etc., in order to ensure all appropriate indications, exist that the product continues to be certified.

3.8.3.5 If a decision to reduce the scope of product certification is made as a condition of reinstatement, SATRA shall make all necessary modifications to formal product certification documents, public information, authorisations for use of marks, etc., in order to ensure the reduced scope of product certification is clearly communicated to the Client and clearly specified in product certification documentation and public information.

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3.8.4 Withdrawal or termination of certificates

3.8.4.1 A certificate shall be withdrawn if:

- It is found that a condition of manufacture, design, materials, or packaging have been changed and therefore no longer comply with the requirements of the Directive or Regulation as applicable;
- The Client fails to settle their financial obligations to SATRA;
- The Client fails to effectively implement the actions agreed following the suspension of a certificate;
- Actions taken by the Client during their business activities that would bring SATRA and / or the Product Certification Scheme into disrepute;
- The Client does not wish to continue with certification;
- The Client goes out of business.

3.8.4.2 SATRA shall inform the Client in writing that their certificate has been withdrawn, the reason(s) for the withdrawal and any actions required.

3.8.4.3 SATRA shall inform the appropriate notifying authority when a Client's certificate has been withdrawn.

3.9 Confidentiality

3.9.1 The results of Product Certification activities shall be treated by SATRA as confidential. Results obtained shall only be passed to third parties with the permission of the Client that originally commissioned it, except for requests from enforcement and surveillance authorities.

Note: SATRA reserves the right to share information relating to certification within the SATRA Group of companies unless advised otherwise.

3.10 Complaints and Appeals

3.10.1 Upon receipt of a complaint or an appeal which relates to product certification activities, the Business area head or their nominated deputy shall deal with it in accordance with SATRA's complaints and appeals procedure.

3.10.2 Where the complaint or appeal relates to the on-going conformity of a product certified by SATRA, it is possible that any agreed remedial actions may involve recalling non-compliant products in which case SATRA shall require documented evidence of such a recall.

3.10.3 Complainants raising issues regarding a) products not being CE or UKCA -marked when they should be or b) EU or UKCA Type Examination certificates issued by other Notified or Approved Bodies shall be directed to the appropriate enforcement authority.

3.10.4 SATRA shall only accept written appeals received within twenty-eight days of the client being informed of the decision that gave rise to the appeal.

3.10.5 Full details of the SATRA Complaints and Appeals procedure are available on request.

3.11 SATRA shall retain in its archive for the period required by the relevant accreditation body all materials relating to the certificate. After which SATRA shall dispose of said materials unless instructed otherwise by the Client. All fees for carrying out such instructions will be invoiced to the Client.

**4.0 SATRA Requirements**

4.1 Any test reports submitted to SATRA in support of EU or UKCA type examination shall meet the following criteria:

a) Reports shall reflect state of the art and be as current as possible, where reports are older than 5 years (60 months) then SATRA reserves the right to request additional supporting documentation, such as more recent check test data;

b) Where not undertaken by SATRA, all testing and reporting shall be carried out by a laboratory that is independent and impartial to any economic operator of the finished product and considered as being competent to conduct the work. Accreditation of a laboratory to ISO 17025 by a National Accreditation Body that is recognised by INAB or UKAS (see ILAC website) for the work undertaken will be taken as evidence of competence as long as it can also demonstrate that it has knowledge of, and access to, any appropriate recommendation for use sheets and guidance papers endorsed by the European Commission or UK Government. In the absence of such accreditation, a report will be accepted only when competence has been demonstrated to the satisfaction of SATRA, via an audit visit and, where judged necessary, check testing.

Note, in either case if the laboratory is not a Notified or Approved Body, SATRA may commission limited check testing on safety critical properties;

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c) Innocuousness test data which has been requested in addition to that required by the main European Harmonised or UK Designated Standard or performance specification. These additional innocuousness tests (i.e., not detailed in the product standard) need not be carried out by SATRA or an ISO 17025 accredited facility but it will be necessary to submit actual test data (declarations of conformity are not acceptable).

d) Reports shall contain where possible the following information:

(i) sample references given in any test report shall be the same as those detailed in the technical file,
(ii) reference to the manufacturer and manufacturing site(s),
(iii) identification of the organisation and personnel responsible for the test,
(iv) identification of the product(s) in accordance with the relevant technical specification,
(v) date(s) samples were received and the date(s) testing was undertaken,
(vi) details of samples received and the sampling procedure if applicable,
(vii) testing methods and procedures used according the relevant technical specification,
(viii) the results of all testing carried out, including analysis of these where relevant,
(ix) registration number of the Notified Body (when relevant),
(x) signature of the person authorised to sign such test reports;

e) The Test Report shall indicate compliance of the product(s) with the relevant clauses of the harmonised standard (s).

4.2 Copies of all test Reports used as part of the certification process shall be submitted to SATRA. Copies of Test Reports that form part of any on-going monitoring procedure should be retained by the manufacturer and made available on request.

4.3 All test reports submitted as part of the certification process shall, where applicable, include information relating to the use of uncertainty of measurement. When evaluating the suitability of results and reports SATRA will, where applicable to safety critical aspects of the product, take uncertainty of measurement into account. SATRA reserves the right to reject reports where the uncertainty of measurement cannot be determined for those tests/properties deemed by SATRA to be safety critical.

4.4 Where a technical file is required as part of the certification process then it shall include at least the following:

a) name & address of the manufacturer;
b) name and address of the Authorised representative in the EU (if relevant);
c) full description(s) of the product(s) included within the technical file, including specifications, annotated drawings and comprehensive photographs of all styles;
d) full details of all materials and components used in the construction of the product (s) including specifications, and supplier details (name and postal address);
e) quality control procedures, and where appropriate, a copy of the ISO9001 certificate for the manufacturing site(s), this should include a description of the control and test facilities at the manufacturing site(s) that are in place in order to check compliance of production with the harmonized standards / technical specifications to ensure ongoing compliance;
f) details of proposed packaging and product marking, including label artwork;
g) copy (ies) of all applicable user information sheets, these shall comply with the requirements of the agreed product standard;
h) check list showing compliance with the applicable health and safety requirements, Annex II of the PPE Regulation;
i) all applicable test reports, references to materials on submitted test reports must correspond with those in the material specifications.

4.5 SATRA reserves the right to request additional supporting documentation including further testing, where the certification process becomes protracted.

**5.0 Article 8 of the PPE Regulation – Obligations of manufacturers**

5.1 When placing PPE on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the applicable essential health and safety requirements set out in Annex II.

5.2 Manufacturers shall draw up the technical documentation referred to in Annex III ('technical documentation') and carry out the applicable conformity assessment procedure referred to in Article 19 or have it carried out.

Where compliance of PPE with the applicable essential health and safety requirements has been demonstrated by the appropriate procedure, manufacturers shall draw up the EU or UKCA declaration of conformity referred to in Article 15 and affix the CE or UKCA marking referred to in Article 16.

5.3 Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the PPE has been placed on the market.

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5.4 Manufacturers shall ensure that procedures are in place for series production to remain in conformity with this Regulation. Changes in the design or characteristics of the PPE and changes in the harmonised or Designated standards or in other technical specifications by reference to which the conformity of the PPE is declared shall be adequately considered.

When deemed appropriate regarding the risks presented by PPE, manufacturers shall, to protect the health and safety of consumers and other end-users, carry out sample testing of PPE made available on the market, investigate, and, if necessary, keep a register of complaints, of non-conforming PPE and PPE recalls, and shall keep distributors informed of any such monitoring.

5.5 Manufacturers shall ensure that the PPE which they place on the market bears a type, batch or serial number or other element allowing its identification, or, where the size or nature of the PPE does not allow it, that the required information is provided on the packaging or in a document accompanying the PPE.

5.6 Manufacturers shall indicate, on the PPE, their name, registered trade name or registered trade mark and the postal address at which they can be contacted or, where that is not possible, on its packaging or in a document accompanying the PPE. The address shall indicate a single point at which the manufacturer can be contacted. The contact details shall be in a language easily understood by end-users and market surveillance authorities.

5.7 Manufacturers shall ensure that the PPE is accompanied by the instructions and information set out in point 1.4 of Annex II in a language which can be easily understood by consumers and other end-users, as determined by the Member State concerned. Such instructions and information, as well as any labelling, shall be clear, understandable, intelligible, and legible.

5.8 The manufacturer shall either provide the EU or UKCA declaration of conformity with the PPE or include in the instructions and information set out in point 1.4 of Annex II the internet address at which the EU declaration of conformity can be accessed.

5.9 Manufacturers who consider or have reason to believe that PPE which they have placed on the market is not in conformity with this Regulation shall immediately take the corrective measures necessary to bring that PPE into conformity, to withdraw it or to recall it, as appropriate. Furthermore, where the PPE presents a risk, manufacturers shall immediately inform the competent national authorities of the Member States in which they made the PPE available on the market to that effect, giving details of the non-conformity and of any corrective measures taken.

5.10 Manufacturers shall, further to a reasoned request from a competent national authority, provide it with all the information and documentation, in paper or electronic form, necessary to demonstrate the conformity of the PPE with this Regulation, in a language which can be easily understood by that authority. They shall cooperate with that authority, at its request, on any action taken to eliminate the risks posed by PPE which they have placed on the market.

For more information, please contact:
E-mail: ppe@satra.com
website: www.satra.com

# TECHNICAL FILE

| | | |
|---|---|---|
| PPE Technical Documentation Type | ☒ | **EU** Type Examination in accordance with European PPE Regulation (EU) 2016/425 |
| | ☐ | **UKCA** Type Examination in accordance with Regulation 2016/425 on personal protective equipment, as amended to apply in GB |
| | ☐ | **EU & UKCA** Type Examination in accordance with European PPE Regulation (EU) 2016/425 and Regulation 2016/425 on personal protective equipment, as amended to apply in GB |

| | |
|---|---|
| Company: | **Fowlers of Bristol Ltd** |
| Product Reference(s): | FXRE Miles Pant |
| | |
| | |
| | |
| | |
| | |

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(*This skeleton Technical File has been produced by SATRA for an authorised representative or manufacturer of Personal Protective Equipment (PPE) to either enter the missing information or use it as an example for guidance. Whichever option you choose, it is important to ensure that all the necessary information is given in a clear, concise, and unambiguous format).*

# SECTION 1 – COMPANY INFORMATION

**COMPANY STRUCTURE**:

Fuel Bespoke is a company dealing in motorcycle riding gear in Spain.

**STATEMENT OF END USE OF PPE**

Motorcyclists' garments are intended to give a degree of protection to the body, without significantly reducing the ability of the rider to control the motorcycle and operate the controls. The garments when used and worn correctly, are meant to reduce injuries risks, limiting the consequences of motorcycle accidents (mainly the severity of impact cut and impact abrasion with the road surface and the impact forces transmission due to crashes against conflicting vehicles, road furniture, and road surfaces).

These garments cannot guarantee protection against traumas caused by bending, twisting, and torsions or against traumas provoked by extreme movements. They also cannot prevent crushing as the result of striking an object.

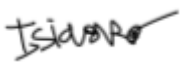
In order to ensure the best protection against motorcycling injuries, ALWAYS use the garments together with other certified PPE (gloves, boots, helmet etc...) that are intended to protect other parts of the body: for instance, additional foot protection.

**CATEGORY OF PPE & HARMONISED STANDARD(S) / SPECIFICATIONS TO BE APPLIED**

EN 17092-3:2020 Class AA

**DECLARATION OF INNOCUOUSNESS**

Other than those specified on the user instructions, the products covered by this technical file are not known to contain any materials or substances (including decomposition products) likely to harm the health or hygiene of the user or other person likely to come into contact with the product.

| | |
|---|---|
| Name & Surname: | Isidoro Reyes de Zuloaga |
| Signature: |  |
| Position: | Business Development Manager |
| Date: | 15/12/2024 |

# SECTION 2 – PRODUCTION SITE DETAILS

**PRODUCTION SITE 1**

| | |
|---|---|
| Company Name: | Mir Yousaf Leatherware (Pvt) Ltd |
| Address Line 1: | Daska Road, |
| Address Line 2: | (PO Box 461) |
| Town/City: | Sialkot |
| County/State/Province: | |
| Postcode: | 51310 |
| Country: | Pakistan |

**PRODUCTION SITE 2** ***(if applicable)***

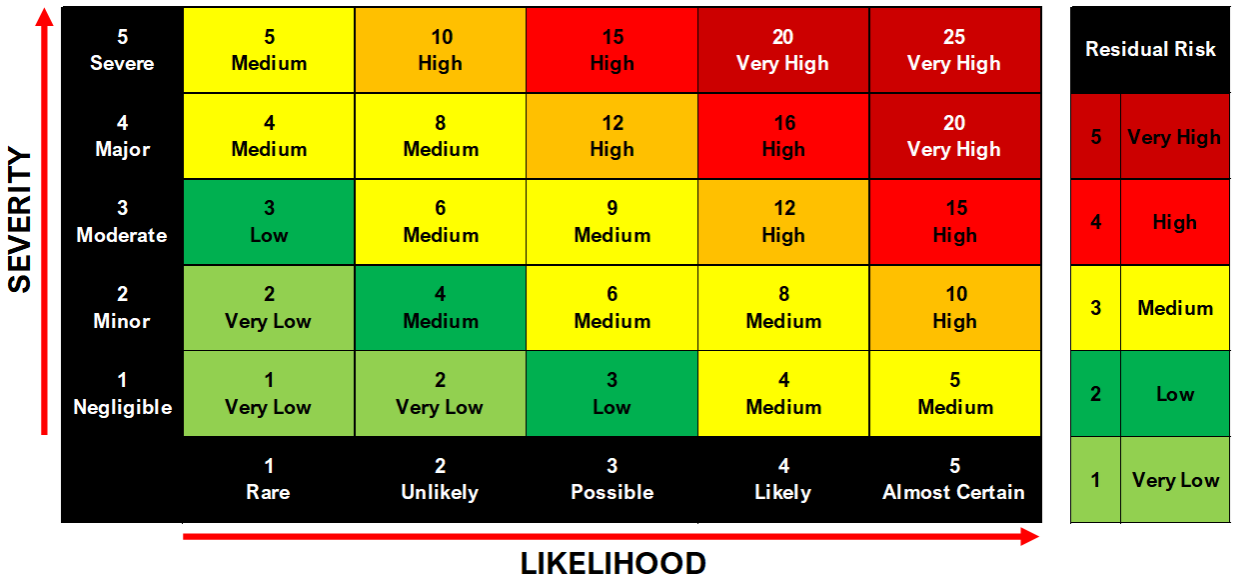
| | |
|---|---|
| Company Name: | |
| Address Line 1: | |
| Address Line 2: | |
| Town/City: | |
| County/State/Province: | |
| Postcode: | |
| Country: | |

# SECTION 3 – RISK ASSESSMENT

| Hazards (A) | Type of Injury (B) | Severity (C) | Likelihood (D) | Rating (E) | Design Considerations (F) | Residual Risk (G) | Standard (H) |
|---|---|---|---|---|---|---|---|
| Falls from a moving vehicle, collision with vehicles / road surface /other obstacles | Blunt trauma, impact. | 4 | 3 | 12 | Limb protectors in the garments | 2 | EN1621-1:2012<br>EN1621-2:2014<br>EN1621-3:2018<br>(Depending on the type of impact protectors fitted in the garments) |
| Falls from a moving vehicle, collision with vehicles / road surface / other obstacles | Abrasion, lacerations. | 3 | 3 | 9 | Abrasive and tear resistant materials. | 2 | EN 17092-2:2020<br>EN 17092-3:2020<br>EN 17092-4:2020<br>EN 17092-5:2020<br>(One of the above will apply based on the performance level achieved on this garments product performance) |
| Health and Hygiene | Skin irritation, skin staining, skin allergy. | 1 | 1 | 1 | Materials tested to ensure they are safe to be used by the end user | 1 | EN ISO 13688:2013+A1:2021 |

(A) **What are the hazards?**
(B) **What type of injuries may occur?**
(C) **Rate severity of hazard / injury?**
(D) **What is the likelihood of the hazard or injury?**
(E) **Severity x likelihood rating?**
(F) **What are design considerations are applied to mitigate the risk of injury?**
(G) **What Residual Risks are there after design considerations?**
(H) **Which standard is being applied to assess the level of protection afforded?**

**Key**



# SECTION 4 – PRODUCT DESCRIPTIONS

## PRODUCT DESCRIPTION

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Style Reference/Name/Code. | FXRE Miles Pant | | | | | | |
| Main Body Material (Outer): | Denim Cordura® Coolmax® (50% Cotton, 30% Nylon, 20% Cordura) | | | | | | |
| Hood *(if applicable):* | | | | | | | |
| Main Body Lining: | Big Hole Mesh (100% Polyester) waist to below knee | | | | | | |
| Detachable Lining (if applicable): | | | | | | | |
| Thermal Lining (*if applicable*): | | | | | | | |
| Vent Pockets *(if applicable):* | | | | | | | |
| Fixtures/Adjustment Systems: | Button Hollow and Touch & Close Fastener | | | | | | |
| Colour Variants: | Black, Blue | | | | | | |
| Gender: | ☒ | Men's | ☒ | Ladies | ☐ | Unisex | ☐ | Kids |

**Men's** Protector Details:

| MANDATORY | | | OPTIONAL | | |
|---|---|---|---|---|---|
| **Area** | **Protector Reference** | **Protector Pocket Material** | **Area** | **Protector Reference** | **Protector Pocket Material** |
| ☐ S | | | ☐ FB | | |
| ☐ E | | | ☐ CB | | |
| ☒ K | Armanox 301 | PC Cotton | ☐ LB | | |
| ☒ H(*) | Armanox 501 | PC Cotton, Cordura Coolmax | | | |
| ☐ K+L | | | ☐ C | | |
| ☐ L | | | ☐ DC | | |

(*) ***Optional for Class A and C***

**Ladies** Protector Details:

| MANDATORY | | | OPTIONAL | | |
|---|---|---|---|---|---|
| **Area** | **Protector Reference** | **Protector Pocket Material** | **Area** | **Protector Reference** | **Protector Pocket Material** |
| ☐ S | | | ☐ FB | | |
| ☐ E | | | ☐ CB | | |
| ☐ K | Armanox 301 | PC Cotton | ☐ LB | | |
| ☐ H(*) | Armanox 501 | PC Cotton, Cordura Coolmax | | | |
| ☐ K+L | | | ☐ C | | |
| ☐ L | | | ☐ DC | | |

(*) ***Optional for Class A and C***

**Kids** Protector Details:

| MANDATORY | | | OPTIONAL | | |
|---|---|---|---|---|---|
| **Area** | **Protector Reference** | **Protector Pocket Material** | **Area** | **Protector Reference** | **Protector Pocket Material** |
| ☐ S | | | ☐ FB | | |
| ☐ E | | | ☐ CB | | |
| ☐ K | | | ☐ LB | | |
| ☐ H(*) | | | | | |
| ☐ K+L | | | ☐ C | | |
| ☐ L | | | ☐ DC | | |

(*) ***Optional for Class A and C***

## SIZE MEASUREMENTS

***UPPER GARMENTS - Shirts / Jackets / Hoodies***

| Men's | Waist | Height |
|---|---|---|
| 28 | 71-75 | 179-181 |
| 30 | 76-80 | 180-182 |
| 32 | 81-85 | 181-183 |
| 34 | 86-90 | 182-184 |
| 36 | 91-95 | 183-185 |
| 38 | 96-100 | 184-186 |
| 40 | 101-105 | 185-187 |
| *Above sizes are full measurements (cm)* | | |

| Ladies | Waist | Height |
|---|---|---|
| 26 | 66-70 | 155-157 |
| 28 | 71-75 | 157-159 |
| 30 | 76-80 | 159-161 |
| 32 | 81-85 | 161-163 |
| 34 | 86-90 | 163-165 |
| 36 | 91-95 | 165-167 |
| 38 | 96-100 | 167-169 |
| *Above sizes are full measurements (cm)* | | |

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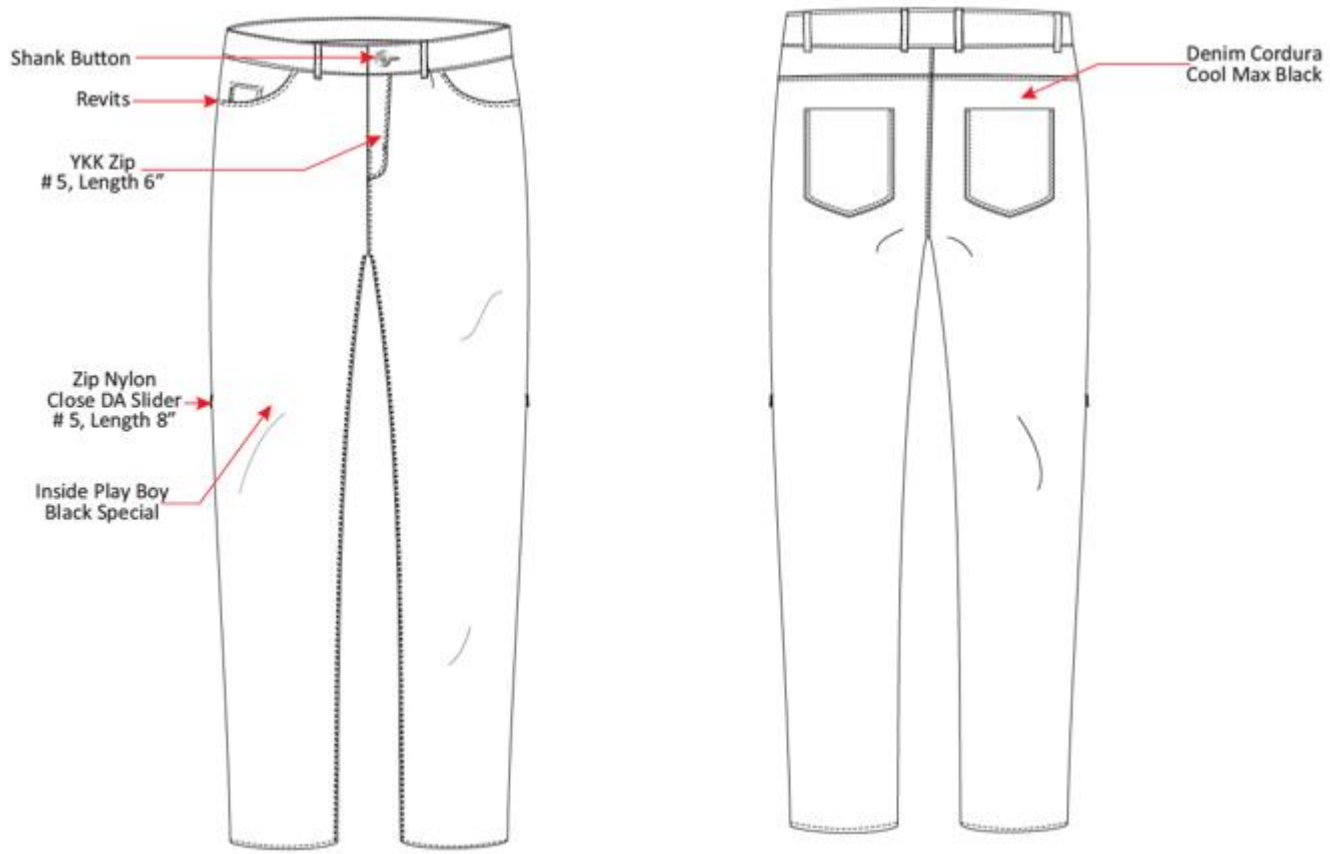
## TECHNICAL DRAWINGS

### EXTERNAL (OUTER)




### INTERNAL (LINING):

**SEAM MAP**

## SEAM KEY

**A**

a-i

Hidden seam with 2 mm single top stitching

a-ii

Hidden seam with 3 mm single top stitching

a-iii

Hidden seam with 6 mm single top stitching

**B**

b

Hidden double seam with 6mm single top stitching

**C**

c-i

Hidden seam with double top stitching

c-ii

Hidden Seam with Tripple Top Stitching

**D**

d

Hidden seam with double top stitching and leather reinforcement on the back

**E**

e

Hidden seam with double top stitching and taped textile reinforcement on the back

**F**

f-i lining Shell

Hidden seam with double overlock

f-ii lining Shell

Hidden seam with lining overlock

f-iii lining lining

Hidden seam with overlock

**G**

g-i

Hidden double stitching

g-ii

Hidden single stitching

g-iii

Hidden double stitching

g-iv

Open single stitching

**H**

h-i

single 1 or 2mm top stitching

h-ii

single 1 or 2mm top stitching

h-iii

double 6mm top stitching & hidden 1 stitching

h-iv

Double 6mm top stitch

**I**

I-i

double top stitching

I-ii

double hidden stitching

I-ii

single inverted(hidden) stitching

**J**

j-i

Triple Top Stitching with Over laped

j-ii

Double Top Stitching with Over laped

**K**

k-i

single 2mm top stitching and open edge

k-ii

double 2mm top stitching and open edge with fabric or ribbon reinforced.

k-iii

Double top stitching and open edge

**L**

L-i

folded layer single top stitching

L-ii

folded layer single hidden & single top stitching

L-iii

folded layer single hidden & Double top stitching

l-iv

folded layer double top stitching

**M**

m-i

Binding stitching

**N**

n-i

Binding with single top stitich

n-ii

inside binding with double top stitching

# SECTION 5 – MASTER MATERIAL LIST & TEST REPORTS

## A) Physical Test Results

| EN 17092 Clause(s) | Test Description | Test House | Test Report No | Test House | Re-test Report No *(if applicable)* |
|---|---|---|---|---|---|
| Clause 4.1.3 | Dimensional Stability | SATRA | SPC2011115 2434 1 | | |
| Clause 4.1.4 | Garment Performance after Cleaning | SATRA | SPC2011115 2434 1 | | |
| Clause 4.2.1 | Impact Energy Absorption | SATRA | SPC2011115 2434 1 | | |
| Clause 4.2.2 | Impact Protector Location and Fixation | SATRA | SPC2011115 2434 1 | | |
| Clause 4.3 | Impact Abrasion Resistance | CRITT | ES08/23/1464 | | |
| Clause 4.4.1 | Structurally Strong Seams (SSS) | SATRA | SPC2011115 2434 1 | | |
| Clause 4.4.2 | Seam Strength | SATRA | SPC2011115 2434 1 | | |
| Clause 4.5 | Tear Strength | CRITT | ES08/23/1464 | | |
| Clause 4.6 | Restraint *(if applicable)* | SATRA | SPC2011115 2434 1 | | |
| Clause 4.7 | Additional Garment Construction Requirements | SATRA | SPC2011115 2434 1 | | |
| Clause 4.8 | Fit & Ergonomics | SATRA | SPC2011115 2434 1 | | |

## B) Protector Certificates

| Protector Type | Included/Optional | Protector Reference | Material Composition | Supplier Name | Supplier Address | Certificate Number | Issuing Body |
|---|---|---|---|---|---|---|---|
| (S) Shoulder | Included | Armanox 301 | 100% Polyurethane | Armanox Pvt Ltd | 5Km., Daska Road, Sadra Badra, 51310 Sialkot, Pakistan | 2777/17912-02/E00-00 | SATRA |
| (E) Elbow | Included | Armanox 501 | 100% Polyurethane | Armanox Pvt Ltd | 5Km., Daska Road, Sadra Badra, 51310 Sialkot, Pakistan | 2777/17914-01/E00-00 | SATRA |
| Choose an item. | Choose an item. | | | | | | |
| Choose an item. | Choose an item. | | | | | | |
| Choose an item. | Choose an item. | | | | | | |

## C) Chemical Innocuousness Test Results

**EXTERNAL OUTER MATERIALS**

| Material | Material Composition | Supplier Reference | Supplier Name | Supplier Address | Test House | Test Report Number | Test Conducted |
|---|---|---|---|---|---|---|---|
| Denim Cordura Coolmax Black | 50% Cotton<br>30% Polyester<br>20% Nylon | 101-01-1023 | Artistic Milliners | Plot # 4 & 8 Sector 25, Korangi Industrial Area, Karachi | TTI | 20424-18 | pH-Azo |
| Denim Cordura Coolmax Blue | 50% Cotton<br>30% Polyester<br>20% Nylon | 101-01-1024 | Artistic Milliners | Plot # 4 & 8 Sector 25, Korangi Industrial Area, Karachi | TTI | 20425-18 | pH-Azo |

**INTERNAL LINING MATERIALS**

| Material | Material Composition | Supplier Reference | Supplier Name | Supplier Address | Test House | Test Report Number | Test Conducted |
|---|---|---|---|---|---|---|---|
| Big Hole Mesh Black | 100% Polyester | 101-14-1043 | HA Sialkot Textile | City Bazar Shahpura Chowk Sialkot | TTI | 26832-18 | pH-Azo |
| PC Cotton Black | 65% Polyester<br>35% Cotton | 101-04-1002 Black | Imran Textile | 9-Km Sargodha Road Faisalabd, Pakistan | TTI | 10639-21 | pH-Azo |
| Micro Polyester Maghzi Black | 100% Polyester | 101-16-1002 | Dt Apparel | Gohray Gaali Khangaha Factory Sialkot, Pakistan | TTI | 23113-18 | pH-Azo |
| Playboy Fabric Black | 100% Polyester | 101-20-1011 | Tariq Lining Store | Bismillah Traders Naseem Hayat Market Sialkot | TTI | 16978-19 | pH-Azo |

| ACCESSORIES & FIXTURES | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Material** | **Material Composition** | **Supplier Reference** | **Supplier Name** | **Supplier Address** | **Test House** | **Test Report Number** | **Test Conducted** |
| Button Shank Gun Metal | Metal | 011-01-1299 | Ex-Co | Room# 1 1st Floor Bahadur Shah Market, M.A Jinnah Road Karachi, Pakistan | TTI | 06278-20 | Nickle Release |
| Zip GM, GM5 (4” to 30”) | Metal | 001-01 | YKK Pakistan Pvt Ltd | Plots # 1-23 Sector E-1 & E-2 Karachi EPZ, Landi, Karachi, Pakistan | TTI | 23421-19 | Nickel Release |
| Zip Nylon, DA5 (10.” to 65”) | Nylon | 001-03 | YKK Pakistan Pvt Ltd | Plots # 1-23 Sector E-1 & E-2 Karachi EPZ, Landi, Karachi, Pakistan | TTI | 22173-19 | Nickel Release |
| Velcro Black | Polyester | 002-02 | NFU | Naseem Hayat Market Sialkot | TTI | 02597-18 22120-19 | pH-Azo PAH |
| Thread (2ply to 5ply) Black | 100% Polyester | 003-01/02/03 | ER Thread | Satellite Town Gujranwala | N/A | | |
| Thread (2ply to 5ply) Blue | 100% Polyester | 003-01/02/03 | ER Thread | Satellite Town Gujranwala | N/A | | |

# SECTION 6 – COMPLIANCE WITH ANNEX II

| Clause in Annex II (PPE Regulation) | Compliance | EN17092:2020 Parts 1 to 4 Clause(s) |
|---|---|---|
| 1.1.1 Ergonomics | Yes | 4.8 (Fit & Ergonomics) |
| 1.1.2 Levels and Classes of Protection | Yes | 4.3 (Impact Abrasion)<br>4.4 (SSS)<br>4.5 (Tear Strength) |
| 1.2 Innocuousness | Yes | 4.1.2 (Innocuousness)<br>4.8 (Fit & Ergonomics) |
| 1.3.1 Adaptation of PPE to user morphology | Yes | 4.2.1 (Impact Energy Absorption – General)<br>4.2.2 (Impact Protector Location & Fixation)<br>~~4.6.2 (Two-pcs suits requirements – only if applicable)~~<br>~~4.6.3 (Garment Sleeve Restraint – only if applicable)~~ |
| 1.3.2 Lightness and design strength | Yes | The product is manufactured as light as possible whilst complying with the performance requirements of the standard. |
| 1.3.3 Compatibility of different types of PPE intended for simultaneous use | Yes | 4.2.1 (Impact Energy Absorption – General)<br>4.2.2 (Impact Protector Location & Fixation)<br>~~4.6.2 (Two-pcs suits requirements – only if applicable)~~<br>~~4.6.3 (Garment Sleeve Restraint – only if applicable)~~ |
| 1.3.4 Protective clothing containing removable protectors | Yes | 4.2.1 (Impact Energy Absorption – General)<br>4.2.2 (Impact Protector Location & Fixation) |
| 1.4 Information supplied by the Manufacturer | Yes | 6 (Information to be supplied – User Instructions) |
| 2.1 PPE incorporating adjustment systems | N/A | ~~4.6.2 (Two-pcs suits requirements – only if applicable)~~<br>~~4.6.3 (Garment Sleeve Restraint – only if applicable)~~ |
| 2.2. PPE enclosing the parts of the body to be protected PPE must be designed and manufactured in a way that perspiration resulting from use is minimised. Otherwise, it must be equipped with means of absorbing perspiration. | Yes | Materials used in the garments allow for perspiration. |
| 2.4 PPE subject to ageing | Yes | Please refer to User Instructions |
| 2.9 PPE incorporating components which can be adjusted or removed by the user | Yes | 4.2 (Impact Energy Absorption)<br>~~4.6 (Restraint)~~ |
| 2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety | Yes | 5 (Marking<br>EN1621-1:2012, EN1621-2:2014 or EN1621-3:2018 marking on impact protectors depending on protectors used or can be used in the garment. |
| 3.1.1 Protection against mechanical impact; Impact caused by falling or ejecting objects and collision of parts of the body with an obstacle | Yes | 4.2 (Impact Energy Absorption)<br>4.3 (Impact Abrasion) |
| 3.3 Protection against physical injury (abrasion, perforation, cuts etc.) | Yes | 4.2 (Impact Energy Absorption)<br>4.3 (Impact Abrasion)<br>4.4 (SSS)<br>4.5 (Tear Strength)<br>~~4.6 (Restraint)~~<br>4.7 (Additional Garment Construction Requirements: Structural Closures, Vents, Pockets, Zone Intrusions) |

# SECTION 7 –USER INFORMATION

Company Name: Fuel Bespoke 2 S.L
Address: C/ D'Urgell 282 6a, Barcelona, Spain

The EU Declaration of Conformity for can be viewed at www.fuelmotorcycles.eu

This garment is an item of Motorcyclists' Personal Protective Equipment (PPE) and conforms to the technical specification “EN 17092-1:2020 Protective garments for motorcycle riders” which has been deemed to satisfy the Basic Health and Safety requirements of the European Personal Protective Equipment (PPE) Regulation (EU) 2016/425.

**EU type examination** has been conducted and certification issued by SATRA Technology Europe Ltd., Bracetown Business Park Clonee, D15 YN2P, Ireland (Notified Body 2777).

Performance levels defined in European Standard EN 17092-1:2020 defines five classifications of motorcyclists' clothing:

- EN 17092-2:2020 — Class AAA garments. The highest level of protection, against the highest level of risks. Some common examples are: one-piece or two-piece suits. These garments are likely to have severe and limiting ergonomic, weight and thermal penalties, which some riders will not find acceptable for their specific riding activities.
- EN 17092-3:2020 — Class AA garments. The second highest level of protection, against the risks of the greatest diversity of riding activities. Some common examples are: garments designed to be worn by themselves or to be worn over other clothing. These garments are expected to have lower ergonomic and weight penalties than Class AAA garments and some riders will not find these penalties acceptable for their specific riding activities.
- EN 17092-4:2020 — Class A garments. The third highest level of protection. Some common examples are: garments, designed to be worn by them self or to be worn over other clothing by riders in extremely hot environments. Class A garments are expected to have the least ergonomic and weight penalties.
- EN 17092-5:2020 — Class B garments. This class is for specialized garments, designed to provide the equivalent abrasion protection of Class A garments but without the inclusion of impact protectors. Some common examples are: modular garments suitable to be combined with other garments providing impact protection. Class B garments do not offer impact protection and it is recommended that they be worn with, at least, EN 1621-1 shoulder and elbow impact protectors, in the case of a jacket, or EN 1621-1 knee impact protectors, in the case of trousers, installed in the garment, if it is designed to accept them or in another form, in order to offer complete minimum protection.
- EN 17092-6:2020 — Class C garments. This class is for specialized non-shell garments, designed only to hold one or more impact protectors in place, either as an undergarment or as an over-garment. Class C garments are designed to provide impact protection for areas covered by the impact protector(s) and they do not offer complete minimum abrasion and impact protection.

**Please refer to each garment’s Label to find out which of the EN 17092-1:2020 Classification the product conforms to and the level of protection offered. Each garment will also have additional hangtags clearly outlining the impact protectors used within that product.**

**Whilst certain types and levels of accident protection can be provided by clothing, protection against all hazards is IMPOSSIBLE**

**Garment Construction**

This garment is constructed from materials which are abrasion, tear and burst resistant. No substances known to be harmful to human health have been used in the construction of this garment.

**Protection provided by this garment**

This clothing is designed to combat the hazards encountered during normal riding on a motorcycle and when the rider is involved in a road traffic accident. The clothing is designed and constructed so that it should remain in place on the wearer, and reasonably intact on impact with the road surface; thus, it should usually prevent any skin contact with the road and therefore minimise mechanical impact injuries to the rider. This clothing cannot provide protection from more serious injuries, although it may assist in reducing the severity of some such injuries.

**Hazards against which some protection is provided**

- Reduction in the severity of contusions and fractures, with the prevention of some fractures and joint damage.
- Prevention of most laceration and abrasion injuries that occur when a rider slides on the road surface after falling off.
- Reduction in the severity (or prevention) of muscle stripping and de-gloving injuries to the lower leg.
- Likely prevention of contamination of open fractures by road dirt.

**Hazards against which this garment cannot provide protection**

- Massive penetrating injuries on parts of the body.
- High energy impacts on the chest or abdomen, and severe bending forces such as when the torso impacts may be against soft or hard ground, or objects such as trees, vehicles, posts, or rails
- Severe bending, crushing and torsional forces which occur if the leg becomes trapped between the motorcycle and another vehicle.
- Strikes against stationary objects.

**Note**: The degree of risk or hazard that a motorcyclist will face is closely linked to the type of riding and the nature of the accident. Riders are cautioned to carefully choose motorcyclists’ protective garments that match their riding activity and risks. Other garments or garment combinations certified according to the series of standards EN 17092 Parts 1 to 6:2020 may provide more appropriate protection than this garment but there may be weight or ergonomic (e.g., range of motion restrictions) or heat stress penalties associated with their use, that may be unacceptable for some riders. So far as possible, design and construction to prevent road impact injury takes precedence over other requirements, unless this would lead to an increased risk of an accident.

**Using this garment for the first time**

Please look at the individual garments' label for available size options and measurements.

In order to benefit fully from the protection offered by these garments, you should ensure that it fits according to the following criteria:

**JEANS - TROUSERS - LEGGINGS**

- That the main fly zip closure is securely fastened.
- That the leg length is covering your ankles and your skin is not exposed (It should not be possible to pull the ankles by more than 10 (ten) centimetres. A greater movement may expose skin to abrasion in an accident. If it is not possible to obtain a secure fit, an alternative size may be required.
- That no discomfort is caused by the garment when in the normal, usual riding position adopted by the wearer, and that you can easily reach and operate the controls of your motorcycle. (Please note, however, that you should allow at least 10 hours of regular wear for the trousers to "break in" and become fully comfortable, and this should be considered when first assessing the fit of your motorcyclists' PPE.)
- There should not be additional, excessive surplus of material - the garment fitting snugly yet comfortably.
- Make sure that the impact protectors are fitting in the correct place. i.e., Knee protectors should be covering your knee.

**SHIRTS - JACKETS - HOODIES**

- That the main body zip closure is securely fastened.
- The adjustable strap system of the garment when available must be adjusted so that the garment is at the closest of the body without hindering or restricting movements. All tightening systems should be locked or closed when riding. While using tightening systems make sure that an excessive tightening of straps and adjustment systems does not interfere with or cut the blood circulation or does not restrict movement. If it is not possible to obtain a secure fit, an alternative size may be required.
- That no discomfort is caused by the garment when in the normal, usual riding position adopted by the wearer, and that you can easily reach and operate the controls of your motorcycle. (Please note, however, that you should allow at least 10 hours of regular wear for the Jackets to "break in" and become fully comfortable, and this should be considered when first assessing the fit of your motorcyclists' PPE.)
- There should not be additional, excessive surplus of material - the garment fitting snugly yet comfortably over the clothing normally chosen for wear under motorcycling PPE. This would normally be one or two thin, insulating or perspiration-wicking layers as required.
- Make sure that the impact protectors are fitting in the correct place. i.e., elbow protectors should be covering your elbow.

**IMPACT PROTECTORS**

All impact protectors present in a garment whether mandatory or optional shall meet at least the Level 1 requirements according to the EN1621 series of standards listed in in the below table.

| Garment Type | Location | Applicable requirements according to standard | Class AAA | Class AA | Class A | Class B | Class C (Under) | Class C (Over) |
|---|---|---|---|---|---|---|---|---|
| Suits or Jackets | Elbow | EN 1621-1:2012 | Mandatory | Mandatory | Mandatory | **NO** Protector Pockets or Protectors Present | At least 1 protector Type is Mandatory. | |
| | Shoulder | EN 1621-1:2012 | Mandatory | Mandatory | Mandatory | | | |
| | Chest | EN 1621-3:2018 or EN 1621-4:2013 | Optional | Optional | Optional | | | |
| | Back | EN 1621-2:2014 or EN 1621-4:2013 | Optional | Optional | Optional | | | |
| | Lumbar | EN 1621-2:2014 or EN 1621-4:2013 | Optional | Optional | Optional | | | |
| Suits or Trousers | Knee/Knee+Leg | EN 1621-1:2012 | Mandatory | Mandatory | Mandatory | | | |
| | Hip | EN 1621-1:2012 | Mandatory | Mandatory | Optional | | | |

All garments are fitted with one of the below protectors. Each garment will clearly show, which of the below protectors are fitted in. If you need to replace the impact protectors fitted to your garment, only use the same models of protectors which are fitted in the garment as standard. Failure to do so will not only result in discomfort but also the performance and protection levels of the garment will be altered, which can result in serious injuries. If the garment you have chosen does not include the impact protectors you require, please choose an alternative product which includes the protection you require.

| Protector Reference | Protector Location | Type | Level |
|---|---|---|---|
| Armanox® 201-S / M / L | FB | | Level 2 |
| Armanox® 202-M | FB | | Level 1 |
| Armanox® 203-M / L | FB | | Level 2 |
| Armanox® 204-M | FB | | Level 1 |
| Armanox® 301 | E/K | Type B | Level 2 |
| Armanox® 302 | E/K | Type B | Level 2 |
| Armanox® 304 | E/K | Type A | Level 1 |
| Armanox® 401 | S | Type A | Level 2 |
| Armanox® 402 | S | Type B | Level 2 |
| Armanox® 404 | S | Type A | Level 1 |
| Armanox® 501 | H | Type B | Level 2 |
| Armanox® 504 | H | Type A | Level 1 |
| Armanox® 601-XS / S / M / L | FB | | Level 1 |
| Armanox® 602-M | FB | | Level 2 |
| Armanox® 603-M | FB | | Level 2 |
| Armanox® 701 | E/K | Type B | Level 1 |
| Armanox® 702 | E/K | Type B | Level 2 |
| Armanox® 801 | S | Type B | Level 1 |
| Armanox® 802 | S | Type B | Level 2 |
| Armanox® 901 | H | Type B | Level 1 |
| Armanox® 902 | H | Type B | Level 2 |
| Armanox® 5000-XL | FB | | Level 2 |
| Armanox® FL 001 | E/K/S | Type A | Level 1 |
| | H | Type B | Level 1 |
| Armanox® FL 001/D1 | E/K/S | Type A | Level 1 |
| | H | Type B | Level 1 |
| Armanox® FL 002 | E/K/S | Type A | Level 2 |
| | H | Type B | Level 2 |
| Armanox® FL 003 | E/K | Type A | Level 2 |
| | S/H | Type B | Level 2 |
| Armanox® FL 004 | E/H | Type B | Level 2 |
| Armanox® FL 005 | E/K/S/H | Type B | Level 2 |
| Armanox® FL 006 | H | Type B | Level 2 |
| SW261 | S | Type B | Level 2 |
| SW262 | E/K | Type B | Level 2 |
| SW263 | S | Type A | Level 2 |
| SW264 | S/E/K | Type B | Level 2 |
| SW267 | H | Type B | Level 2 |
| Winner 790 | S | Type B | Level 1 |
| Winner 791 | E | Type B | Level 1 |
| SC-1/01 | S | Type A | Level 2 |
| SC-1/02 | S/E/K | Type B | Level 2 |
| SC-1/07 | H | Type B | Level 1 |
| SC-1/74 | H | Type B | Level 2 |
| SCL-1 | S/E/K | Type B | Level 2 |
| SCL-2 | S | Type B | Level 2 |
| SCL-2 | E/K | Type A | Level 2 |
| D3O LP1 L1S | S | Type A | Level 1 |
| D3O LP1 L1E | E | Type A | Level 1 |

**IMPORTANT NOTICE**

Impact protectors should be sited over the areas they are designed to protect, as follows:

- **BACK**: Back protectors should be placed symmetrically in the centre of the back. When positioned correctly the wider coverage which covers the centre of the back and runs in the direction of the length of the back.
- **CHEST:** Chest protectors should be placed symmetrically in the centre of the chest. Insert into the lining pocket and secure the fastening.
- **SHOULDER**: symmetrically on the shoulder bone. Ensure the pad is high enough to cover the top of the Shoulder bone. Insert into the lining pocket with the convex face outwards and secure the fastening.
- **ELBOW**: symmetrically placed on the Elbow to the outside of the arm, insert into the lining pocket and use the Velcro fastening to secure the protector in the most comfortable position when riding the motorcycle.
- **HIP**: symmetrically on the hip bone. Ensure the pad is high enough to cover top of the hip bone. Insert into the lining pocket with the convex face outwards and secure the fastening.
- **KNEE & SHIN**: symmetrically placed on the knee and the shin bone, or biased slightly to the outside of the leg, from about 10 cm above the knee to as close to the ankle as it is practical to wear the protector with a boot. Insert into the lining pocket and use the Velcro fastening to secure the protector in the most comfortable position when riding the motorcycle.

Please refer also to the instructions for use supplied by the impact protector manufacturer. Only impact protectors conforming to the requirements of EN 1621-1:2012 and/or EN 1621-2:2014 should be used. Note: impact protectors must be removed when the garment is cleaned, to prevent damage to the impact foam's structure.

**Key**: S (Shoulder), E (Elbow), K (Knee and Upper Tibia), H (Hip), Full Back (FB), Lower Back (LB), Chest (C), Divided Chest (DC)

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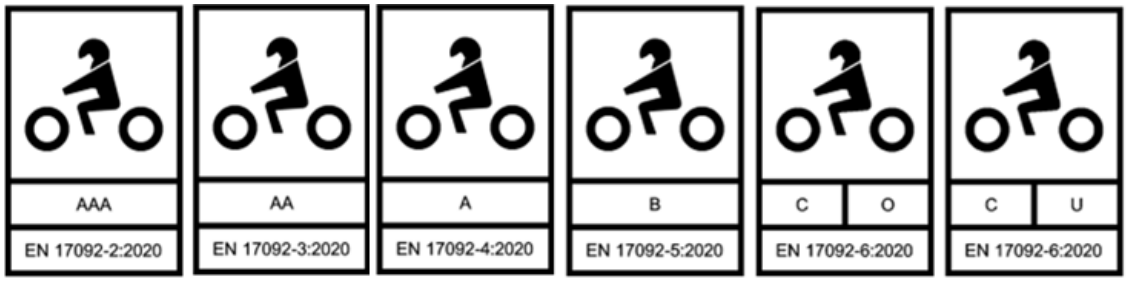
**Marking Codes on Garments**

Each garment is fitted with a label. The below table explains the markings that are available on the products.

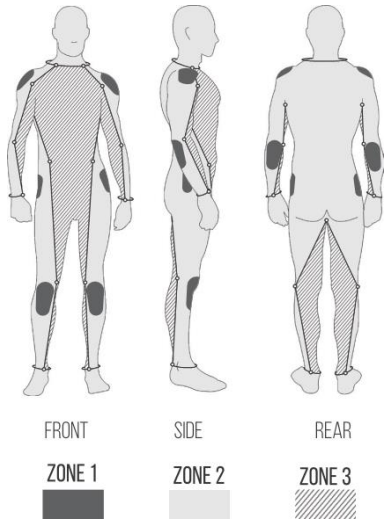
| | |
|---|---|
| Fuel MOTORCYCLES | Trade Mark of Manufacturer |
| | Address of Manufacturer |
| | This pictogram indicates that user information is available and should be read |
| XXXXXX | Product Style Reference (Each garment will have a product code or name) |
| Size: L | Product Size |
| | Protective equipment motorcycle riders (ISO7000-2618) |
| AA | Performance Class |
| CE | CE Mark – Designates compliance with European Legislation |
| EN 17092-X:2020 | EU Standard for Protective garments for motorcycle riders EN 17092-1:2020 consists of a series of parts. Based on the performance (CLASS) each product will be marked with one of below parts. |

**Performance Marking Examples**




**Zoning Areas for Garments**

Typical example of the final Zone boundaries determined using the procedure for determination and demarcation of risk category zones




**Zone Impact Abrasion Resistance**

| Zones | Impact Abrasion resistance requirements (rmp / Darmstadt test method) | | | | | |
|---|---|---|---|---|---|---|
| | AAA | AA | A | B | C (Under) | C (Over) |
| 1 | 707 | 412 | 265 | 265 | N/A | 265 |
| 2 | 442 | 265 | 147 | 147 | N/A | 147 |
| 3 | 265 | 147 | N/A | N/A | N/A | N/A |

**Seam Strength**

| Zones | Seam Strength (N/mm) | | | | | |
|---|---|---|---|---|---|---|
| | AAA | AA | A | B | C (Under) | C (Over) |
| 1 | 12 | 8 | 6 | 6 | 4 | 6 |
| 2 | 12 | 8 | 6 | 6 | 4 | 6 |
| 3 | 8 | 6 | 4 | 4 | 4 | 4 |
| Protector pocket material (if present) | 4 | 4 | 4 | N/A | 4 | 4 |

**Tear Strength**

| Zones | Tear Strength (in N) | | | | | |
|---|---|---|---|---|---|---|
| | AAA | AA | A | B | C (Under) | C (Over) |
| 1 | 50 | 40 | 35 | 35 | 10 | 35 |
| 2 | 50 | 40 | 25 | 25 | 10 | 25 |
| 3 | 35 | 30 | 25 | 25 | 10 | 25 |
| Protector pocket material (if present) | 10 | 10 | 10 | N/A | 10 | 10 |

**Cleaning and Maintenance Information**

Each individual garment will have specific care label attached to it. Please follow those instructions. If unsure please contact your dealer for further assistance. **Note:** Always remove fitted impact protectors before cleaning and refit, following the instructions provided below, after the garment has been allowed to dry.

**Non-Leather Garments**

Wash or clean the garments according to the washing instructions sewed on the label or applied in the garment. Never use solvent or chlorine bleach or cleaning agents that contain chlorine bleach. These substances rapidly break down the materials and reduce the level of protection offered.

**Leather Garments**

Do not machine wash or dry clean these products. Never use solvent or chlorine bleach or cleaning agents that contain chlorine bleach. These substances rapidly break down the materials and reduce the level of protection offered. The pigmented leather garments should only be wiped clean with very gentle solution of soapy water whereas the non-pigmented leather garments should only be wiped clean with a soft fabric or sponge. Too much detergent can cause leather to deteriorate and strip it of dyes, resulting in a blotchy, discoloured appearance. Submerge the towel (soft cloth - rough fabrics may leave scratches on soft leather if you are not careful.) or sponge in the soapy solution. Wring out the excess liquid. The towel or sponge should not be sopping wet, just damp. If it is too wet, the water can soak into and saturate the leather, potentially causing even more damage. Run the damp towel or sponge in long, smooth motions rather than forcefully scrubbing. Pay particular attention to water spots, discoloured patches, and places where dirt or oil have built up on the leather. Clean the entire garment, re-wetting the towel when needed. Clean off the soap and pat the garment dry. Wipe the garment again, this time using clean water to clear away any soap residue. Make sure there is no standing water remaining on the garment. With a dry towel, pat the leather until it is completely dry. Hang the garment up in a closet and allow it to finish drying. Direct heat can be very bad for leather, especially if it has just been moisturized, so do not dry the garment in a machine or use a blow dryer.

**All Garment Types**

**If contaminated with blood:** As soon as the stain happens, dab the blood with a clean, dry cloth. This will help to remove some of the blood and will prevent it from seeping further into the garment. Gently blot the stain with the soapy sponge or cloth. Do not rub the stain because this can push the stain further into the garment or spread the stain to a larger surface area. Then, wet a new cloth with water and dab the stain to remove any excess soap that may be left on the garment. After this, follow the washing instructions sewed on the label or applied in the garment. If the stain persists then take your garment to a specialist cleaner or contact your dealer.

**Storage**: Keep your products in their original packaging whilst storing. After use, store your garments in a clean, dry, ventilated area away from direct sunlight and away from tools or other sharp objects to maximize the useful life. Storing wet garments will promote growth of mildew, fungus, bacteria, or other harmful substances with the potential to cause skin irritation, rashes, and diseases and/or illnesses.

**Inspection and repair:** Protective garments that are no longer deemed serviceable for reasons of damage, contamination, or other unsafe condition must be disposed of in a fashion whereby the garments cannot be reused and in accordance with your local regulations. Do not attempt to repair your garments. If damaged, obtain a new set of garments as a replacement.

**Use with Additional Personal Protective Equipment**

To achieve the maximum available levels of protection in the event of an accident, this garment should be used in conjunction with compatible, correctly fitting items of PPE which give coverage to areas of the body not protected by this garment - i.e.: a total PPE package should be used, comprising helmet, gloves, boots; and jacket & trousers or one-piece /two-piece suits.
This garment is designed to be worn with the following, additional PPE:

- **Motorcycle Safety Helmet**, with fitted or separate eye protection.
  Relevant standards include: DOT, ECE 22.05 and Snell M2000).
- **Trouser** made from leather or other materials with equivalent properties.
  Relevant standards include EN 17092 Parts 1 to 6:2020, the French Protocol and EN13595.
  It is advised that separate jackets and trousers should have sufficient overlap, when the wearer is in the riding position.
- **Gloves** made of leather or material with equivalent properties, worn inside or outside the cuff of the garment and extending from the wrist joint up the wearer's arms for not less than 50mm.
  Relevant standard: EN13594.
- **Boots**: to EN13634 made of leather or material with equivalent properties, worn inside or outside garment providing protection to the lower limbs and feet.

**Use in Adverse Climatic Conditions**

In conditions of cold and/or wet weather, it is advised that this garment be worn with the following items:

- A thin under garment of insulating material affording protection from cold weather for the wearer;
- For conspicuity in conditions of reduced visibility, where high visibility materials and components are not an integral part of the garment; additional high-visibility clothing or accessories. Relevant standards include: EN ISO 20471:2013+A1:2016 and EN 17353:2020.

**IMPORTANT NOTICES**

- This item of motorcyclists' PPE will only provide the maximum available levels of protection when the recommended standard fitment impact protectors (see "IMPACT PROTECTORS") are fitted and positioned in accordance with the instructions provided. The garment must not be worn when riding a motorcycle without the impact protectors fitted. If you need to replace the impact protectors fitted to your garment, only use the same models of protectors which are fitted as standard.
- The main closures and restraint mechanisms of this garment should always be securely fastened when in use whilst riding a motorcycle or this garment's ability to provide protection in the event of an accident may be severely reduced. Never ride with main closures open during hot weather.
- If the environmental conditions render this garment excessively and distractingly uncomfortable, a more appropriate protective garment should be worn whilst riding, or other methods of reducing the effects of heat stress employed. Further advice can be obtained from the manufacturer or supplier.
- It is advised that solid objects should not be stored in the pockets of this garment whilst the user is riding a motorcycle, as in the event of an accident such objects may cause injury.
- The manufacturer shall be absolved of all liability arising from injury, howsoever caused, where the garment or its components have been modified, replaced, or removed.

EXAMINED BY SATRA - DO NOT AMEND

# SECTION 8 – PRODUCT MARKING

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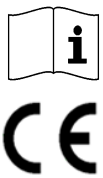
**FXRE Miles Pant**

**Size 34**

## SHELL
50% Cotton, 30% Nylon, 20% Cordura®

## LINING
100% Polyester

## CARE INSTRUCTIONS


Machine wash at 30°C

Do not bleach

Do not dry clean

Do not tumble dry

## MADE IN PAKISTAN

**Fuel Bespoke 2 S.L.**
C/ D'Urgell 282 6a, Barcelona, 08036, Spain

www.fuelmotorcycles.com

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EXAMINED BY SATRA - DO NOT AMEND

# SECTION 9 – QUALITY CONTROL PROCEDURES

Manufacturer has developed a system to control the design, development, and purchase of all the products included in the catalogue. This system consists on the following:

Manufacturer ‘H1-H8’ PROCESS:

H1: Material testing and checking before cutting procedure starts.
H2: Pre-Production sign off samples to be approved by the Brands product design team.
H3: Using machine codes inside every garment for traceability.
H4: Production inspection carried out by manufacturer’s quality team during production in line.
H5: Measurements are checked before and after wash.
H6: Internal audit of packed shipment before delivery according to quality checklist.
H7: Shipment to be inspected by the Brands upon receipt of goods.
H8: Product REJECT analysis with the record of every reject with the following information
“Reason Code”
“Reject Date
“Batch Number”
“Explanation of Corrective Actions”

# SECTION 10 – EU DECLARATION OF CONFORMITY

The Manufacturer

**Fuel Bespoke 2 S.L.**
C/ D'Urgell 282 6a, Barcelona, 08036, Spain

Declares under his sole responsibility that the PPE;

**FXRE Miles Pant**

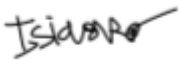
is in conformity with the European PPE Regulation (EU) 2016/425 and that they are in compliance with

**EN 17092-3:2020**

and are identical to the PPE that has been subject to an EU Type examination certification (Module B)

EU Type- examination (Module B) issued by:
SATRA Technology Europe Ltd. (2777)
Bracetown Business Park, Clonee, Dublin, D15 YN2P, Ireland
Certificate Number: XXXXX

Isidoro Reyes de Zuloaga



Business Development Manager
06/12/2024

EXAMINED BY SATRA - DO NOT AMEND

# INFORMATIVE ANNEX

The following is an extract from PPE Regulation (EU) 2016/425 Annex III which outlines the criteria of the Technical Documentation:

“The technical documentation shall specify the means used by the manufacturer to ensure the conformity of the PPE with the applicable essential health and safety requirements referred to in Article 5 of the above Regulation and set out in Annex II.

The technical documentation shall include at least the following elements:

(a) a complete description of the PPE and of its intended use;
(b) an assessment of the risks against which the PPE is intended to protect;
(c) a list of the essential health and safety requirements that are applicable to the PPE;
(d) design and manufacturing drawings and schemes of the PPE and of its components, sub-assemblies and circuits;
(e) the descriptions and explanations necessary for the understanding of the drawings and schemes referred to in point (d) and of the operation of the PPE;
(f) the references of the harmonised standards referred to in Article 14 that have been applied for the design and manufacture of the PPE. In the event of partial application of harmonised standards, the documentation shall specify the parts which have been applied;
(g) where harmonised standards have not been applied or have been only partially applied, descriptions of the other technical specifications that have been applied in order to satisfy the applicable essential health and safety requirements;
(h) the results of the design calculations, inspections and examinations carried out to verify the conformity of the PPE with the applicable essential health and safety requirements;
(i) reports on the tests carried out to verify the conformity of the PPE with the applicable essential health and safety requirements and, where appropriate, to establish the relevant protection class;
(j) a description of the means used by the manufacturer during the production of the PPE to ensure the conformity of the PPE produced with the design specifications;
(k) a copy of the manufacturer's instructions and information set out in point 1.4 of Annex II;
(l) for PPE produced as a single unit to fit an individual user, all the necessary instructions for manufacturing such PPE on the basis of the approved basic model;
(m) for PPE produced in series where each item is adapted to fit an individual user, a description of the measures to be taken by the manufacturer during the fitting and production process to ensure that each item of PPE complies with the approved type and with the applicable essential health and safety requirement”

SATRA Technology Centre Ltd
Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000
email: info@satra.com
www.satra.com

0248

# TECHNICAL REPORT

| | | | |
|---|---|---|---|
| FUEL BESPOKE 2 S.L.<br>C/ D'URGELL 282 6A<br>08036 BARCELONA<br>Spain | SATRA reference: | SPC2011115 | |
| | | 2434 | 1 |
| | Report ID/Issue number: | 45240/1 | |
| | Your reference: | | |
| | Date samples received: | 13/08/2024 | |
| | Date(s) work carried out: | 04/10/2024 to 18/10/2024 | |
| | Date of report: | 22/10/2024 | |

## Testing Requirements

Full testing of motorcycle garment referenced as Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) Fxre Miles Pant in accordance with EN 17092-3:2020, include washing, excluding Tear and Abrasion.

For SATRA's full terms and conditions see our website: https://new.satra.com/satra-terms-and-conditions/

For SATRA's statements regarding the confidentiality, publication and dissemination of this report, decision rules and UKAS accreditation please see the final page of this technical report.

**Report Signed by:**

Adeola Gbolahan

**Report Signatory**

SATRA Technical Report

0248

## Work Requested

Garment deemed for motorcycle use was received for assessment in accordance with EN 17092-2:2020, EN 17092-3:2020 and EN 17092-4:2020

## Sample Conditioning

Garments were declared washable, therefore prior to testing, the garment was cleaned 5 times in accordance with ¥ISO 6330: 2021 washing procedure 3N (30°C), followed by ¥ISO 6330: 2021 drying procedure F - tumble dry. See appendix for more detail.

Samples were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity. Testing was started within 30 minutes of the removal from that environment.

## Conclusion

Garment testing was incomplete

| Standard | Clause / Test | | Result |
|---|---|---|---|
| EN 17092-2:2020<br>EN 17092-3:2020<br>EN 17092-4:2020 | 4.1.2 | Innocuousness | See Note 1 |
| | 4.1.3 | Dimensional stability | Pass |
| | 4.1.4 | Garment performance after cleaning | See Note 1 |
| | 4.2.1 | Impact energy absorption | Pass |
| | 4.2.2 | Impact protector location & fixation | Pass |
| | 4.3 | Impact abrasion resistance | Not requested |
| | 4.4.1 | Structurally strong seams | Pass |
| | 4.4.2 | Seam strength | Class AA<br>See Note 2 |
| | 4.5 | Tear strength | Not requested |
| | 4.6 | Restraint | Not applicable |
| | 4.7 | Additional garment construction requirements | Pass |
| | 4.8 | Fit and ergonomics | Pass |

**Note 1** - This shall be fully assessed during the Type Examination process.

**Note 2** – Some results fall within guard banding – see the individual results for further information.

SATRA Report Reference: SPC2011115 2434
Report ID/Issue number: 45240/1

## Product Description & Sample Identification

| Garment reference | Size(s) assessed | Colour(s) |
|---|---|---|
| Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon)<br>Fxre Miles Pant | 34 | Black |

In accordance with the risk category zoning procedure described in EN 17092-1:2020, 5.2, the following were identified as requiring mechanical assessment. Where constructions, seams or closures cross over in to more than one zone, it shall be assessed against the higher zone requirements.

| Reference | Impact abrasion combinations | Zone |
|---|---|---|
| M1 +<br>M4 +<br>M1+<br>M2 | Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>Big Hole Mesh +<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>PC Cotton Black | 1 |
| M1 +<br>M2 +<br>M2 +<br>M4 | Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>PC Cotton Black +<br>PC Cotton Black +<br>Big Hole Mesh | 1 |
| M1 | Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 |

| Reference | Structurally Strong Layers “SSL” | Zone |
|---|---|---|
| 115 M1 | Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 1 |
| 115 M2 | PC Cotton Black | Pocket |

| Reference | Structurally Strong Seams “SSS” & Structural closures | Zone |
|---|---|---|
| 115 S1 | a-i, Hidden Seam with 2mm Single Top Stitching (location: Hip pocket at top, external)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black | 1 |
| 115 S2 | a-i, Hidden Seam with 2mm Single Top Stitching<br>(location: Just below opening of external hip pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black +<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black | 1 |
| 115 S3 | a-i, Hidden Seam with 2mm Single Top Stitching (location: Below external hip pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>PC Cotton Black + PC Cotton Black | 1 |
| 115 S4 | f-iii, Hidden Seam with overlock (location: Outside of leg)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 |

| Reference | Structurally Strong Seams "SSS" & Structural closures | Zone |
|---|---|---|
| 115 S5 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Inside of leg)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 |
| 115 S6 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Below fly)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 3 |
| 115 S7 | Slide fastener - Fly<br>a-i, Hidden Seam with 2mm Single Top Stitching:<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon)+Big Hole Mesh //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon)+Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon)+ Big Hole Mesh<br>(Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon)) | 3 |
| 115 S8 | Slide fastener - Pocket<br>a-iii, Hidden Seam with 6mm Single Top Stitching (location: Outside of leg, external knee protector pocket closure)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black (PC Cotton Black) | 2 |
| 115 S9 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Inside of leg, at point of knee protector pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black +PC Cotton Black //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 |
| 115 S10 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Yoke and seat of trouser)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 1 |
| 115 S11 | Hidden Seam with 6mm Single Top Stitching (location: Hip protector pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) // PC Cotton Black | Pocket |
| 115 S12 | Overlock stitch (location: Bottom of knee protector pocket)<br>PC Cotton Black // PC Cotton Black | Pocket |

**Product Images**

Figure 1: front of garment - external

**Product Images**

Figure 2: back of garment – external

**Product Images**

Figure 3: front of garment – internal

**Product Images**

Figure 4: back of garment – internal

## Requirements

Table 1 – Impact protection requirements

| Location | Class AAA - AA | Class A | Class B | Class C |
|---|---|---|---|---|
| Elbow | Mandatory | Mandatory | No protectors are required | At least one protector type is mandatory |
| Shoulder | Mandatory | Mandatory | | |
| Chest | Optional | Optional | | |
| Back | Optional | Optional | | |
| Knee | Mandatory | Mandatory | | |
| Hip | Mandatory | Optional | | |

Table 2 – Zone impact abrasion resistance requirements (rpm / Darmstadt test method)

| Zone | Class AAA | Class AA | Class A – B | Class C (over) |
|---|---|---|---|---|
| 1 | 707 | 412 | 265 | 265 |
| 2 | 442 | 265 | 147 | 147 |
| 3 | 265 | 147 | - | - |

Table 3 – Minimum seam strength requirements for Structurally Strong Seams (N/mm)

| Zone | Class AAA | Class AA | Class A – C (over) | Class C (under) |
|---|---|---|---|---|
| 1 | 12 | 8 | 6 | 4 |
| 2 | 12 | 8 | 6 | 4 |
| 3 | 8 | 6 | 4 | 4 |
| Protector pocket | 4 | 4 | 4 | 4 |

Table 4 – Mean tear strength requirements (N)

| Zone | Class AAA | Class AA | Class A – C (over) | Class C (under) |
|---|---|---|---|---|
| 1 | 50 | 40 | 35 | 10 |
| 2 | 50 | 40 | 25 | 10 |
| 3 | 35 | 30 | 25 | 10 |
| Protector pocket | 10 | 10 | 10 | 10 |

## Test Results – EN 17092-2:2020, EN 17092-3:2020 and EN 17092-4:2020

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.1.2 Innocuousness | Materials shall not adversely affect the health or hygiene of the user and materials shall not release substances generally known to be toxic, carcinogenic, mutagenic, allergenic, toxic to reproduction or otherwise harmful | This shall be fully assessed during type examination. | See Note 1 |
| 4.1.3 Dimensional stability of garments | Dimensional stability shall be assessed on the whole garment according to EN ISO 5077:2008. The sample shall be submitted to washing according to EN ISO 13688:2013, 5.2. The variation shall not exceed 5% | Largest variation recorded: -2.6%<br>Location: E1, E2<br>See appendix for all results | Pass |
| 4.1.4 Garment performance after cleaning | Mandatory or optional impact protectors, where according to the manufacturer's instructions, are to be removed prior to cleaning. It shall be possible to reinstall the protectors afterwards.<br>Garments and samples shall conform to the requirements specified in clauses 4.2 - 4.8 of the standard after the required number of cleanings, if applicable. | Impact protectors could be removed and reinstalled after cleaning.<br>Requirements in Clauses 4.2 - 4.8 after cleaning in accordance with EN ISO 13688:2013, 5.2. will be fully assessed during the Type Examination process. | See Note 1 |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.2 Impact energy absorption<br><br>4.2.1 General | Impact protectors shall be present within the garment and whether mandatory or optional, shall meet at least the Level 1 of the requirements according to the standards listed in Table 1.<br><br>For garments with pockets for optional impact protectors, there shall be at least one type of impact protector that is available for each protector pocket.<br><br>Pockets intended for impact protectors shall not contain any other items other than impact protectors complying with the applicable part of EN 1621.<br><br>EN 1621-1 protectors shall be positioned in the garment so that they cover the appropriate body part according to the relevant impact protector standard. | Compliant EN 1621 protectors were fitted at the Knee and optional protector pocket was present at the Hip, see Table 5 . | Pass |

Table 5 – Mandatory and optional fitted impact protection

| Location | Manufacturer | Reference | Pocket Dimensions | |
|---|---|---|---|---|
| | | | Width (mm) | Length (mm) |
| Knee | ARMANOX | 301 K/E Type A L2 T+ T- | (1) 200 (2) 160<br>See Note 3 | (1) 295 (2) 225<br>See Note 3 |
| Hip * | ARMANOX | 501 H Type B L2 T+ T- | 110 | 210 |

Note 3- The wall of the knee pocket is lined with loop fastening strips, by which the pouch that holds the protectors is attached to the pocket via hook, forming a hook and loop system. The pouch (holding the knee protector) position is adjustable.

Protector locations marked with * may be optionally fitted, and are not required to be supplied with the garment unless stated in the user notice. Hip protection is deemed to be optional only in Classes A, B or C

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.2.2 Impact protector location & fixation<br><br>(Internal) | Internal or external impact protectors present in or on garments shall be correctly positioned in or on the garment no matter which system is used to hold them in place.<br><br>Garments, with impact protector pockets for location of optional impact protectors listed in the information notice for users, shall be manufactured to ensure correct positioning of the inserted impact protector.<br><br>EN 1621 series impact protectors shall be positioned in the garment so that they cover the appropriate body part according to the relevant impact protector standard.<br><br>**Impact protectors shall be appropriately restrained after the following checks:**<br><br>a) A visual and tactile check to confirm that protectors are over the correct location on the body also while performing the ergonomic exercises.<br><br>b) A visual and tactile check to confirm that the protectors are secure within the pockets.<br><br>c) A visual and tactile check to confirm that protectors restrained by other means are secured in their position | Hip protectors were correctly positioned and held within pockets; The pockets have no closure. Correct positinioning was maintained during ergonomic assessments. | Pass |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.2.2 Impact protector location & fixation<br><br>(External) | **External protectors (in pockets):**<br>External pocket materials and closures for the impact protectors shall meet the appropriate zone requirements and the pocket or pocket closure shall not open during testing.<br><br>The design of external pockets or pocket closures for hard impact protectors may allow the hard impact protector to be exposed but the protector shall not be released from the pocket during testing and the exposed portion of the installed impact protector and its pocket system shall meet all Zone 1 requirements.<br><br>**External protectors (no pockets):**<br>Exposed portions of the impact protectors and their attachment systems shall meet all appropriate zone. Attached protectors shall not be released from the garment during testing.<br><br>The protectors shall not be attached to the garment solely by means of hook and loop fastener material.<br><br>**Optional divided chest protectors:**<br>When installed in or on a garment, the distance between the two parts of the protector shall be no more than 50 mm | Knee protectors were correctly positioned and held within pockets. The pockets open eternally and were closed by slide fasteners.<br>The slide fasteners and the materials covering the protectors meet the requirement of the zone in which they were used. Correct positinioning was maintained during ergonomic assessments. | Pass |

| Clause | Assessment |
|---|---|
| 4.3 Impact abrasion resistance | Not requested |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.4 Structurally strong seams (SSS)<br><br>4.4.1 General | SSS in the SSL, which are on the exterior of the garment in Zone 1 and 2 shall have at least one line of the stitching protected by an SSL material.<br><br>Leather or textile abrasion overlays and reinforcements sewn onto the SSL shall have at least two rows of stitching attaching them to the SSL but are not required to have at least one line of stitching protected.<br><br>External rigid or semi-rigid reinforcements sewn into ("window stitched") or onto the SSL shall have at least two rows of stitching attaching them to the SSL but are not required to have at least one line of stitching protected | At least one line of stitching is protected and concealed by an SSL material in Zones 1 and 2.<br><br>No abrasion overlays or external rigid reinforcements are present | Pass |

| Clause | Assessment | | | | | |
|---|---|---|---|---|---|---|
| | Description | | Zone | Lowest value (N/mm) | Class | Failure code |
| 4.4 Structurally strong seams (SSS)<br><br>4.4.2 Seam strength | 115 S1 | a-i, Hidden Seam with 2mm Single Top Stitching (location: Hip pocket at top, external)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>PC Cotton Black | 1 | 12.4 | AAA | |
| | 115 S2 | a-i, Hidden Seam with 2mm Single Top Stitching (location: Just below opening of external hip pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>PC Cotton Black +<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black | 1 | 12.3 | AAA | |
| | 115 S3 | a-i, Hidden Seam with 2mm Single Top Stitching (location: Below external hip pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) +<br>PC Cotton Black + PC Cotton Black | 1 | 13.4 | AAA | |
| | 115 S4 | f-iii, Hidden Seam with overlock (location: Outside of leg)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 | 11.2 | AA | |
| | 115 S5 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Inside of leg)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 | 8.6 | AA | |

| | Assessment | | | | | |
|---|---|---|---|---|---|---|
| | Description | | Zone | Lowest value (N/mm) | Class | Failure code |
| **Clause**<br>4.4 Structurally strong seams (SSS)<br><br>4.4.2 Seam strength | 115 S6 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Below fly)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 3 | 13.9 | AAA | |
| | 115 S7 | Slide fastener - Fly<br>a-i, Hidden Seam with 2mm Single Top Stitching:<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Big Hole Mesh //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Big Hole Mesh<br>(Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon)) | 3 | 9.7 | AAA | |
| | 115 S8 | Slide fastener - Pocket<br>a-iii, Hidden Seam with 6mm Single Top Stitching with 6mm edge (location: Outside of leg, external knee protector pocket closure)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black<br>(PC Cotton Black) | 2 | 12.1 | See Note 4 | |
| | 115 S9 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Inside of leg, at point of knee protector pocket)<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) + PC Cotton Black +PC Cotton Black //<br>Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 2 | 8.4 | AA | |

**Note 4** - The result obtained meets the requirement for a class AAA, however when uncertainty is taken into account this falls within the guard banding and as such could be considered a class AA

| Clause | Assessment | | | | | |
|---|---|---|---|---|---|---|
| | Description | | Zone | Lowest value (N/mm) | Class | Failure code |
| 4.4 Structurally strong seams (SSS)<br>4.4.2 Seam strength | 115 S10 | c-i, Hidden Seam with Double Top Stitching with 2mm edge (location: Yoke and seat of trouser) Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) // Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) | 1 | 10.5 | AA | |
| | 115 S11 | Hidden Seam with 6mm Single Top Stitching with 6mm edge (location: Hip protector pocket) Denim Cordura Cool-Max (50% Cotton + 30% Polyester + 20% Nylon) // PC Cotton Black | Pocket | 7.6 | Pass | |
| | 115 S12 | Overlock stitch (location: Bottom of knee protector pocket) PC Cotton Black // PC Cotton Black | Pocket | 6.3 | Pass | |

Table 6 – Seam strength failure code descriptions

| Failure Code | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| Failure Type | Fabric tear | Fabric tear at the jaws | Fabric tear at the seam | Breakage of sewing threads | Thread pull-out | Combination of multiple |

| Clause | Assessment |
|---|---|
| 4.5 Tear strength | Not requested |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.6 Restraint | When tested in accordance with the methods described in EN 17092-1:2020, 5.5 the garment shall meet the requirements of 4.6.2 and 4.6.3, where applicable | See clauses 4.6.2 to 4.6.3 | - |
| 4.6.2 Two-piece suit requirements | The upper and lower parts of two-piece suits shall be joined with a fastening system so that no gap opens between the upper and the lower parts when a test force of 100N is applied for 60 seconds according to the test method of EN 17092-1:2020, 5.5.3.1.<br><br>The fastening system shall not be exposed and shall be protected by SSL material | Not applicable | N/A |
| 4.6.3 Garment sleeve restraint | Sleeves of garments shall have a fastening or restraint system present to limit the possibility that the sleeves may slide up the arm in the event of an accident.<br><br>These fastening systems shall provide for a reduction in the sleeve circumference between the open and closed (or loosest and tightest) states.<br><br>It shall not be possible to extract the test cone from either sleeve, or in the case of loop restraints, the distance between point A and point B shall not be more than 140 mm | Not applicable | N/A |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.7 Additional garment construction | Garments shall meet the following requirements, according to their zones, which are determined according to the procedure described in EN 17092-1:2020, 5.2 | See clauses 4.7.2 to 4.7.8 | - |
| 4.7.2 Structural closures | Structural closures present shall be tested according to the seam strength test procedure and shall meet the seam strength requirements of their respective zone | See clause 4.4.2 | Pass |
| 4.7.3 Vents | Openings in any zone of the SSL created by vents or vent systems of any type, including vent systems designed with multiple closures or fastening systems used in combination to create a larger vent area, shall be completely covered by SSL material that meets the applicable zone requirements or the vent opening must be filled with material that meets the applicable zone requirements.<br><br>There shall be an exception for vents that are single linear openings in Zone 2 or single linear openings crossing from Zone 2 to Zone 3. These vents may have an opening that is filled with material that only meets Zone 3 requirements, provided the vent has been designed so that its opening is restricted to 4 cm or less in width, when measured at 90° to the line of the closure, at any point along the length of the vent. Apart from these exceptions, vents or vent systems crossing over more than one zone shall meet the requirements of the higher zone, if applicable | No vent openings are present | N/A |
| 4.7.4 Pockets | Pockets creating an opening in the SSL shall have SSL material inside which fills the exposed opening and extends along the interior of the pocket beyond the opening at least an additional 3cm | SSL extends along the interior of pockets by at least 3cm | Pass |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.7.5 Zone intrusions | Zone 3 boundaries may be allowed to intrude into Zone 2, to allow for the use of materials or construction in Zone 2 which only meet Zone 3 requirements, for the purposes of ergonomics or ventilation, within the following limits. The total area permitted for Zone 3 materials intrusion into Zone 2 shall be calculated according to EN 17092-1:2020 Table 5, where “W” = the waist circumference “E” (in cm) as described and measured in EN 17092-1:2020, 5.2.3.2 and EN 17092-1:2020, Table 3.<br><br>The area of Zone 3 permitted to intrude into Zone 2 shall respect the following rules:<br><br>- The entire allowance shall not be used in one location.<br><br>- No more than one half of the allowance may be used on either side of the medial line.<br><br>- The Zone 3 into Zone 2 intrusion area shall be adjacent and connected to Zone 3;<br><br>- Zone 3 on the arm shall be aligned on the inside of the arm only;<br><br>- The Zone 3 into Zone 2 intrusion area shall not be used to join two Zone 3 boundaries together across Zone 2 or to divide Zone 2 completely at any location. | No unpermitted intrusions were present for Zone 3 materials into Zone 2 areas | Pass |
| 4.7.6 Collar material | Materials above the neck circumference (see EN 17092-1:2020, 5.2.3.2) are not subject to mechanical testing | - | - |
| 4.7.7 Use of open mesh materials | Mesh materials that are woven or knitted with openings greater than 5 mm² may not be used as the only layer of the SSL | Mesh with openings greater than 5 mm² are not present | N/A |
| 4.7.8 Use of retroreflective materials | If the manufacturer claims retroreflective performance for the garment, the performance of the retroreflective materials shall be in conformity with EN 1150 or EN 20471 | Reflective panels are not present | N/A |

| Clause | Requirements | Comments | Result |
|---|---|---|---|
| 4.8 Fit and ergonomics | Garments shall fit in accordance with the manufacturer's size labelling and in accordance with the fit information and fit instructions supplied in the manufacturer's information notice for users and they shall be sized in accordance with a size system, or EN ISO 13688:2013 or shall be made-to-measure.<br><br>When tested in accordance with the method described in EN 17092-1:2020, 5.6, the assessor shall be able to carry out all the essential movements while wearing the test garment and all responses given by the assessor to the questions detailed in EN 17092-1:2020, 5.6, Table 11, shall be positive. Hard sharp edges or sharp points shall not be present on the interior or exterior of garments.<br><br>The construction of the garment shall protect the body from structures when necessary. Such features are permitted to penetrate the SSL provided the inner surfaces of these features are flush to the SSL. | Garment was labelled as size 34.<br><br>The garment fits in accordance with the size chart provided and all ergonomic responses were positive when donned by an assessor (measurements noted below).<br><br>The fitting and size chart will be further assessed during the Type Examination process.<br><br>Assessor's measurements:<br><br>\| \| Size chart \| Subject 1 \|<br>\| Height \| 182-184 \| 180 \|<br>\| Waist \| 86-88 \| 90 \| | Pass |

## Uncertainty of Measurement

| Clause | Test | | UoM applied |
|---|---|---|---|
| 4.1.3 | Dimensional stability | EN ISO 13688:2013 | ±0.3% |
| 4.2 | Impact energy absorption | EN 1621-1:2012<br>EN 1621-2:2014<br>EN 1621-3:2018 | Force ±1.0%<br>Force ±1.0%<br>Force ±1.0% |
| 4.3 | Test Method for Determination of Impact Abrasion Resistance | EN 17092-1:2020 | ±1.1rpm |
| 4.4.2 | Seam strength | EN 13594:2015 | ±0.21N% |
| 4.5 | Tear strength | EN ISO 3377-1:2011<br>EN ISO 4674-1:2016 | ±0.37N<br>±0.37N |
| 4.6 | Garment restraint | EN 17092-1:2020 | Force ±2.1N<br>Time ±0.6seconds |
| 5.2 | Procedure for determination and demarcation of risk category zones | EN 17092-1:2020 | ±9.6mm |

## Appendix: Additional Information

### Washing Details – ¥ISO 6330:2021

| | |
|---|---|
| Washing was carried out in accordance with ¥EN ISO 6330:2021 | |
| Conditioning | (20±2) °C (65±4%) RH |
| Machine type | washing machine Type A |
| Washing procedure | 3N |
| Detergent type | Reference detergent 3 with perborate |
| Number of cycles | 5 |
| Drying procedure | F(low) |
| Tumble drier type | Type A1 |
| Sample air-dry load mass | 1.0kg, 1.8kg |
| Ballast air-dry load mass | 1.0kg, 0.2kg |
| Type of Ballast | Polyester |
| Washing procedures completed back-to-back for all cycles followed by one drying procedure. Dimensional change was carried out in accordance with EN ISO 5077:2008 and BS EN ISO 3759:2011 | |

### Dimensional Stability Measurements – BS EN ISO 3759:2011

| Reference | Measurement Description (Trouser-Like Garments) MAIN GARMENT | Change (%) |
|---|---|---|
| A1 | Length from top to junction of leg seams at the front, excluding the waistband (Left) | -1.6 |
| A2 | Length from top to junction of leg seams at the front, excluding the waistband (Right) | -1.9 |
| B1 | Length from top to junction of leg seams at the back, excluding the waistband (Left) | -1.8 |
| B2 | Length from top to junction of leg seams at the back, excluding the waistband (Right) | -2.0 |
| C1 | Inside leg from crotch to bottom of leg; if the leg is short, measure from the bottom of one leg to the bottom of the other leg via the crotch (Left) | -1.9 |
| C2 | Inside leg from crotch to bottom of leg; if the leg is short, measure from the bottom of one leg to the bottom of the other leg via the crotch (Right) | -1.6 |
| D | Width at waist | 0.0 |
| E1 | Width at bottom of leg (Left) | -2.6 |
| E2 | Width at bottom of leg (Right) | -2.6 |
| F1 | Width of leg halfway between crotch and bottom of leg, i.e. knee (omit if leg length is short) (Left) | 0.0 |
| F2 | Width of leg halfway between crotch and bottom of leg, i.e. knee (omit if leg length is short) (Right) | 0.0 |
| G1 | Width of top of leg, i.e. thigh (Left) | 0.0 |
| G2 | Width of top of leg, i.e. thigh (Right) | -1.8 |

## Conditions of Use

### Confidentiality and Dissemination

SATRA test reports may be forwarded to other parties if they are not changed in any way and are not marked as confidential. Test reports must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

### Liability

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

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### Accreditation

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Tests marked ¥ are performed under SATRA's Flexible UKAS Schedule.

Opinions and interpretations fall outside the UKAS Accreditation for SATRA.

### Uncertainty of Measurement and Decision Rules

Where values for uncertainty of measurement are included within the report then the uncertainty of the corresponding results are based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

When reporting results against a conformance statement (Pass/Fail or the allocation of a class or level) then uncertainty of measurement is taken into account based on a non-binary acceptance which itself is based on the guard band being equal to the expanded uncertainty.

Where the result corrected for uncertainty falls within the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 2.5% and SATRA will in this instance quote a Pass/Fail, class, or level.

Where the result corrected for uncertainty falls outside of the tolerance of the conformance statement then the risk of the conformance statement being a false accept or false reject is up to 50%. In this instance SATRA will not provide a Pass/Fail statement or a class or level but will include information in the notes in relation to the result obtained.

SATRA's guidelines provide recommendations that are based upon SATRA's knowledge and experience. The guidelines are intended to indicate conformance by providing information on the likely performance or characteristics of a property. As such, uncertainty of measurement is not applied when evaluating results against guideline recommendations.

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EXAMINED BY SATRA - DO NOT AMEND

TEST REPORT

| | |
|---|---|
| **REPORT NUMBER:** | 26832-18 |
| **RECEIVING DATE:** | Dec 05, 2018 |
| **ISSUE DATE:** | Dec 07, 2018 |
| **PAGE:** | 1 of 3 |

| | |
|---|---|
| **Customer:** | **Mir Yousaf Leatherware.** |
| **Address:** | P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan. |
| **Contact person:** | Mr. Zarnab Gull. |
| **Contact details:** | Tel: 052-3550773, 3552835, 3250212-3 |
| | Fax: 052-3563329, 3563376 |
| | Cell: 0345-6699701 |
| | Email: inquiry@miryousaf.com |

| | |
|---|---|
| **Manufacturer:** | Mir Yousaf Leatherware. |
| **Buyer:** | / |
| **Label:** | / |
| **Fiber** *(claimed)*: | 100% Polyester |
| **Color:** | Black |
| **Style No:** | / |
| **Weight:** | / |
| **P.O No:** | / |
| **Vendor Ref No:** | 101-14-1043 |
| **Country of Origin:** | Pakistan |
| **Country of Destination:** | / |
| **Sample description:** | Big Hole Mesh Fabric |
| **End use:** | / |

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

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## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Actual Results |
| 02 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
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## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2005)

| | | Requirement |
|---|---|---|
| pH value | 6.71 | -- |

**2. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2017)

Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2017;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
With Extraction
Component Tested: Black Mesh Fabric

| | Forbidden Amine | CAS # | Results (mg/kg) | Requirement |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | < 5.0 | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | < 5.0 | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | < 5.0 | |
| 4. | 2-naphthylamine | 91-59-8 | < 5.0 | |
| 5. | o-aminoazotoluene | 97-56-3 | < 5.0 | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | < 5.0 | |
| 7. | 4-Chloroaniline | 106-47-8 | < 5.0 | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | < 5.0 | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | < 5.0 | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | < 5.0 | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | < 5.0 | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | < 5.0 | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | < 5.0 | |
| 14. | p-cresidine | 120-71-8 | < 5.0 | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | < 5.0 | |
| 16. | 4,4'-oxydianiline | 101-80-4 | < 5.0 | |
| 17. | 4,4'-thiodianiline | 139-65-1 | < 5.0 | |
| 18. | o-toluidine | 95-53-4 | < 5.0 | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | < 5.0 | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | < 5.0 | |
| 21. | o-anisidine | 90-04-0 | < 5.0 | |
| 22. | 4-aminoazobenzene | 60-09-3 | < 5.0 | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | < 5.0 | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | < 5.0 | |

Method detection limit: 5 mg/kg
mg/kg: milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
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TEST REPORT

| | |
|---|---|
| **REPORT NUMBER:** | 02597-18 |
| **RECEIVING DATE:** | Feb 07, 2018 |
| **ISSUE DATE:** | Feb 09, 2018 |
| **PAGE:** | 1 of 3 |

| | |
|---|---|
| **Customer:** | **Mir Yousaf Leatherware.** |
| **Address:** | P.O Box# 461, Mir House, 5 Km, Daska Road,Sadra Badra Sialkot - Pakistan. |
| **Contact person:** | Mr. Zarnab Gull |
| **Contact details:** | Tel: 052-3550773, 3552835, 3250212-3 |
| | Fax: 052-3563329, 3563376 |
| | Email: inquiry@miryousaf.com |

| | |
|---|---|
| **Manufacturer:** | Mir Yousaf Leatherware. |
| **Buyer:** | / |
| **Label:** | / |
| **Fiber:** | 50% Nylon, 50% Polyester |
| **Color:** | Black |
| **Style No:** | / |
| **Weight:** | / |
| **P.O No:** | / |
| **Vendor Ref #:** | / |
| **Country of Origin:** | Pakistan |
| **Country of Destination:** | / |
| **Sample description:** | Velcro Tape |
| **End use:** | / |

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

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## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Results |
| 02 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**

**02597-18**

**Tti Testing Laboratories**
347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.
Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net

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## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071) **Requirement**

| | | |
|---|---|---|
| pH value | 6.70 | -- |

**1. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2012)

BS EN 14362-1: 2017 for Textile Material
Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2012;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
Combined Method
Component Tested: Velcro Tape
Fiber: Nylon + Polyester

| | Forbidden Amine | CAS # | Results (mg/kg) | Requirement |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | < 5.0 | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | < 5.0 | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | < 5.0 | |
| 4. | 2-naphthylamine | 91-59-8 | < 5.0 | |
| 5. | o-aminoazotoluene | 97-56-3 | < 5.0 | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | < 5.0 | |
| 7. | 4-Chloroaniline | 106-47-8 | < 5.0 | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | < 5.0 | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | < 5.0 | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | < 5.0 | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | < 5.0 | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | < 5.0 | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | < 5.0 | |
| 14. | p-cresidine | 120-71-8 | < 5.0 | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | < 5.0 | |
| 16. | 4,4'-oxydianiline | 101-80-4 | < 5.0 | |
| 17. | 4,4'-thiodianiline | 139-65-1 | < 5.0 | |
| 18. | o-toluidine | 95-53-4 | < 5.0 | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | < 5.0 | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | < 5.0 | |
| 21. | o-anisidine | 90-04-0 | < 5.0 | |
| 22. | 4-aminoazobenzene | 60-09-3 | < 5.0 | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | < 5.0 | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | < 5.0 | |

Method detection limit: 5 mg/kg
mg/kg: milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
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PNAC LAB 022 17025

**REPORT NUMBER:** 22120-19
**RECEIVING DATE:** Sep 20, 2019
**ISSUE DATE:** Sep 30, 2018
**PAGE:** 1 of 3

**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Zarnab Gull.

**Contact details:** Tel: 052-3550773, 3552835, 3250212-3
Fax: 052-3563329, 3563376
Email: inquiry@miryousaf.com

---

| | |
|---|---|
| **Manufacturer:** | Mir Yousaf Leatherware. |
| **Buyer:** | / |
| **Fiber Contents** (Claimed)**:** | / |
| **Fiber:** | / |
| **Color:** | Black |
| **Style No:** | / |
| **Sizes:** | 0.5” to 4" |
| **P.O No:** | / |
| **Code No:** | 002-01-1007-Velcro 0.75 inch Hard Black – 002-01-1008- Velcro 0.75 inch Soft Black – 002-01-1009 – Velcro 1.0 inch Hard Black – 002-01-1010 – Velcro – 1.0 Inch Soft Black – 002-01-1011 – inch Hard Black – 002-01-1019 – Velcro 1.50 inch Soft Black – 002-01-1013 – Velcro 2.0 inch Hard Black – 002-01-1014 – Velcro 2.0 inch Soft Black – 002-01-1019 – Velcro 3.0 inch Hard Black – 002-01-1020 – Velcro 3.0 inch Soft Black – 002-01-1022 – Velcro 4.0 inch Soft Black – 002-01-1021 – Velcro 4.0 inch Hard Black |
| **Country of Origin:** | Pakistan |
| **Country of Destination:** | / |
| **Sample description:** | Black Velcro |
| **End use:** | / |

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
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Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01. | Presence Of Polycyclic Aromatic Hydrocarbons (PAHs) | Pass |

**Digital image of submitted sample**

**Tti Testing Laboratories**
347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.
Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net

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## Test Results:

**1. Presence Of Polycyclic Aromatic Hydrocarbons (PAHs):** (AfPS GS 2014:01)

Component: Black Velcro

| List of PAHs | CAS No. | Result (mg/kg) | Requirement |
|---|---|---|---|
| Regulated PAHs of High Concern | | | Adult 1 mg/kg (For Each)<br>Infant 0.5 mg/kg (For Each) |
| Benzo(a)anthracene | 56-55-3 | N.D | |
| Benzo(a)pyrene | 50-32-8 | N.D | |
| Benzo(b)fluoranthene | 205-99-2 | N.D | |
| Benzo(e)pyrene | 192-97-2 | N.D | |
| Benzo(j)fluoranthene | 205-82-3 | N.D | |
| Benzo(k)fluoranthene | 207-08-9 | N.D | |
| Chrysene | 218-01-9 | N.D | |
| Dibenzo(a,h)anthracene | 53-70-3 | N.D | |
| Sum of PAHs | | N.D | |
| Regulated PAHs | | | 10 mg/kg (Total) |
| Acenaphthene | 83-32-9 | N.D | |
| Acenaphthylene | 208-96-8 | N.D | |
| Anthracene | 120-12-7 | N.D | |
| Benzo(g,h,i)perylene | 191-24-2 | N.D | |
| Fluorene | 86-73-7 | N.D | |
| Fluoranthene | 206-44-0 | N.D | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | N.D | |
| Naphthalene | 91-20-3 | 0.2 | |
| Phenanthrene | 85-01-8 | N.D | |
| Pyrene | 129-00-0 | N.D | |
| Sum of PAHs | | 0.2 | |

**Note:**

N.D: Not Detected

Laboratory Reporting Limit: 0.1 mg/kg (individual)

Laboratory Reporting Limit: 0.8 mg/kg (Sum of Regulated PAHs of High Concern)

Laboratory Reporting Limit: 1.6 mg/kg (Sum of Regulated PAHs)

mg/kg: milligram per kilogram

mg/kg = ppm (parts per million)

**Test Location:** This test has been subcontracted to MTS Hong Kong.

--------- END OF REPORT ---------

**Tti Testing Laboratories**
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PNAC LAB 022 17025

**REPORT NUMBER:** 22173-19
**RECEIVING DATE:** Sep 21, 2019
**ISSUE DATE:** Sep 30, 2019
**PAGE:** 1 of 4

**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Zarnab Gull.

**Contact details:**
Tel: +92-52-3550773, 3552835, 3250212-3
Fax: +92-52-3563329, 3563376
Cell: +92-345-6699701
Email: inquiry@miryousaf.com

---

**Manufacturer:** Mir Yousaf Leatherware.
**Buyer:** /
**Label:** /
**Fiber** *(claimed)*: /
**Weight** *(claimed)*: /
**Color:** Black
**Sizes:** 3 # 4” to 30" – 5# 10” to 65”
**Types:** /
**P.O No:** /
**Code No:** 001-03-1011- 001-03-1012- 001-03-1013- 001-03-1014- 001-03-1043- 001-03-1015- 001-03-1018- 001-03-1001- 001-03-1002- 001-03-1003- 001-03-1004- 001-03-1005- 001-03-1006- 001-03-1007- 001-03-1016- 001-03-1008- 001-03-1009- 001-03-1010- 001-03-1025- 001-03-1026- 001-03-1029- 001-11-1007
**Vendor Ref No:** /
**Country of Origin:** Pakistan
**Country of Destination:** /
**Sample description:** Zip Nylon DA Slider Black All Sizes.
**End use:** /

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
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## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Actual Results |
| 02 | Nickel Release | Pass |
| 03 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**

**Tti Testing Laboratories**
347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.
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## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2005) **Requirement**

Temperature: 24°C, pH of De-ionized water: 6.10

| | | |
|---|---|---|
| pH value | 6.94 | -- |

**2. Nickel Release** (EN 12472:2005+A1: 2009)

Analysis was performed by AAS

| Test Item | Sample Area ($cm^2$) | Volume of Test Solution (ml) | Nickel release(µg/$cm^2$/week) | | | Conclusion |
|---|---|---|---|---|---|---|
| | | | Trial 1 | Trial 2 | Trial 3 | |
| Slider Puller | 7.78 | 12 | N.D | N.D | / | Pass |

Note:

1. (µg/$cm^2$/week)=microgram per square centimeter per week
2. ND= Not detected
3. Detection Limit=0.1 µg/$cm^2$/week
4. CR 12471:2002 Clauses 5.3.4 is employed for Nickel screening. For coated samples, simulation of wear and corrosion by the EN 12472:2005+ A1:2009 will be performed for any negative findings by screening.

Comments are given according to Annex A of EN1811:2011 + AC: 2015 as below:

| Migration Limits (Entry No 27 under ANNEX XVII of REACH) | Nickel release (µg/$cm^2$/week) (Consideration of 46% Uncertainty) | |
|---|---|---|
| | PASS | Fail |
| Articles with direct, prolonged skin contact: 0.5 µg/$cm^2$/week | <0.88 | ≥0.88 |
| Post assemblies for Ear and Body Piercing: 0.2 µg/$cm^2$/week | <0.35 | ≥0.35 |

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**3. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2017)

Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2017;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
With Extraction
Component Tested: Zip Slider Black (Zip Tape)

| | Forbidden Amine | CAS # | Results (mg/kg) | Requirement |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | N.D | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | N.D | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | N.D | |
| 4. | 2-naphthylamine | 91-59-8 | N.D | |
| 5. | o-aminoazotoluene | 97-56-3 | N.D | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | N.D | |
| 7. | 4-Chloroaniline | 106-47-8 | N.D | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | N.D | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | N.D | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | N.D | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | N.D | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | N.D | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | N.D | |
| 14. | p-cresidine | 120-71-8 | N.D | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | N.D | |
| 16. | 4,4'-oxydianiline | 101-80-4 | N.D | |
| 17. | 4,4'-thiodianiline | 139-65-1 | N.D | |
| 18. | o-toluidine | 95-53-4 | N.D | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | N.D | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | N.D | |
| 21. | o-anisidine | 90-04-0 | N.D | |
| 22. | 4-aminoazobenzene | 60-09-3 | N.D | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | N.D | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | N.D | |

**Notes:**
MDL (Method Detection Limit) = 5 mg/kg
N.D = Not Detected (< MDL)
mg/kg: Milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
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TEST REPORT

| | |
|---|---|
| **REPORT NUMBER:** | 23113-18 |
| **RECEIVING DATE:** | Oct 25, 2018 |
| **ISSUE DATE:** | Oct 29, 2018 |
| **PAGE:** | 1 of 3 |

| | |
|---|---|
| **Customer:** | **Mir Yousaf Leatherware.** |
| **Address:** | P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan. |
| **Contact person:** | Mr. Zarnab Gull. |
| **Contact details:** | Tel: 052-3550773, 3552835, 3250212-3 |
| | Fax: 052-3563329, 3563376 |
| | Cell: 0345-6699701 |
| | Email: inquiry@miryousaf.com |

| | |
|---|---|
| **Manufacturer:** | Mir Yousaf Leatherware. |
| **Buyer:** | / |
| **Label:** | / |
| **Fiber** *(claimed)*: | 100% Polyester |
| **Color:** | Black |
| **Style No:** | / |
| **Weight:** | / |
| **P.O No:** | / |
| **Vendor Ref No:** | 101-16-1002 |
| **Country of Origin:** | Pakistan |
| **Country of Destination:** | / |
| **Sample description:** | Micro Polyester Maghzi |
| **End use:** | / |

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
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## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Actual Results |
| 02 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**


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TEST REPORT



## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2005)

| | | Requirement |
|---|---|---|
| pH value | 6.99 | -- |

**2. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2017)

BS EN 14362-1: 2017 for Textile Material
Determination of 4-aminoazobenzene (CAS No.:60-09-3) – BS EN 14362-3:2012;
With the use of Gas Chromatography – Mass Spectrometry (GC-MS)
With extraction
Component Tested: Micro Polyester Maghzi Fabric Swatch

| | Forbidden Amine | CAS # | Results (mg/kg) | |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | < 5.0 | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | < 5.0 | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | < 5.0 | |
| 4. | 2-naphthylamine | 91-59-8 | < 5.0 | |
| 5. | o-aminoazotoluene | 97-56-3 | < 5.0 | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | < 5.0 | |
| 7. | 4-Chloroaniline | 106-47-8 | < 5.0 | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | < 5.0 | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | < 5.0 | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | < 5.0 | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | < 5.0 | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | < 5.0 | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | < 5.0 | |
| 14. | p-cresidine | 120-71-8 | < 5.0 | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | < 5.0 | |
| 16. | 4,4'-oxydianiline | 101-80-4 | < 5.0 | |
| 17. | 4,4'-thiodianiline | 139-65-1 | < 5.0 | |
| 18. | o-toluidine | 95-53-4 | < 5.0 | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | < 5.0 | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | < 5.0 | |
| 21. | o-anisidine | 90-04-0 | < 5.0 | |
| 22. | 4-aminoazobenzene | 60-09-3 | < 5.0 | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | < 5.0 | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | < 5.0 | |

Method detection limit: 5 mg/kg
mg/kg: milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
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# TEST REPORT

**REPORT NUMBER:** 20424-18
**RECEIVING DATE:** Sep 26, 2018
**ISSUE DATE:** Sep 28, 2018


**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Zarnab Gull.

**Contact details:**
Tel: 052-3550773, 3552835, 3250212-3
Fax: 052-3563329, 3563376
Cell: 0345-6699701
Email: inquiry@miryousaf.com

---

**Manufacturer:** Mir Yousaf Leatherware.
**Buyer:** /
**Label:** /
**Fiber** *(claimed)*: 50% Cotton, 30% Polyester, 20% Nylon
**Color:** Black
**Style No:** /
**Weight:** /
**P.O No:** /
**Vendor Ref No:** /
**Country of Origin:** Pakistan
**Country of Destination:** /
**Sample description:** Denim Cordura Cool Max Fabric Swatch
**End use:** /

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

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## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Actual Results |
| 02 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**


**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

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## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2005) **Requirement**

| | | |
|---|---|---|
| pH value | 7.26 | -- |

**2. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2017)

Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2017;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
Combined Method
Component Tested: Black Fabric

| | Forbidden Amine | CAS # | Results (mg/kg) | |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | < 5.0 | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | < 5.0 | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | < 5.0 | |
| 4. | 2-naphthylamine | 91-59-8 | < 5.0 | |
| 5. | o-aminoazotoluene | 97-56-3 | < 5.0 | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | < 5.0 | |
| 7. | 4-Chloroaniline | 106-47-8 | < 5.0 | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | < 5.0 | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | < 5.0 | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | < 5.0 | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | < 5.0 | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | < 5.0 | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | < 5.0 | |
| 14. | p-cresidine | 120-71-8 | < 5.0 | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | < 5.0 | |
| 16. | 4,4'-oxydianiline | 101-80-4 | < 5.0 | |
| 17. | 4,4'-thiodianiline | 139-65-1 | < 5.0 | |
| 18. | o-toluidine | 95-53-4 | < 5.0 | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | < 5.0 | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | < 5.0 | |
| 21. | o-anisidine | 90-04-0 | < 5.0 | |
| 22. | 4-aminoazobenzene | 60-09-3 | < 5.0 | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | < 5.0 | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | < 5.0 | |

Method detection limit: 5 mg/kg
mg/kg: milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.
Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net

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# TEST REPORT

**REPORT NUMBER:** 20425-18
**RECEIVING DATE:** Sep 26, 2018
**ISSUE DATE:** Sep 28, 2018


**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Zarnab Gull.

**Contact details:**
Tel: 052-3550773, 3552835, 3250212-3
Fax: 052-3563329, 3563376
Cell: 0345-6699701
Email: inquiry@miryousaf.com

---

**Manufacturer:** Mir Yousaf Leatherware.
**Buyer:** /
**Label:** /
**Fiber** *(claimed)*: 50% Cotton, 30% Polyester, 20% Nylon
**Color:** Blue
**Style No:** /
**Weight:** /
**P.O No:** /
**Vendor Ref No:** /
**Country of Origin:** Pakistan
**Country of Destination:** /
**Sample description:** Denim Cordura Cool Max Fabric Swatch
**End use:** /

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

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## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Actual Results |
| 02 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**


**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

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## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2005)

| | | Requirement |
|---|---|---|
| pH value | 6.93 | -- |

**2. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2017)

Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2017;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
Combined Method
Component Tested: Blue Fabric

| | Forbidden Amine | CAS # | Results (mg/kg) | |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | < 5.0 | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | < 5.0 | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | < 5.0 | |
| 4. | 2-naphthylamine | 91-59-8 | < 5.0 | |
| 5. | o-aminoazotoluene | 97-56-3 | < 5.0 | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | < 5.0 | |
| 7. | 4-Chloroaniline | 106-47-8 | < 5.0 | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | < 5.0 | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | < 5.0 | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | < 5.0 | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | < 5.0 | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | < 5.0 | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | < 5.0 | |
| 14. | p-cresidine | 120-71-8 | < 5.0 | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | < 5.0 | |
| 16. | 4,4'-oxydianiline | 101-80-4 | < 5.0 | |
| 17. | 4,4'-thiodianiline | 139-65-1 | < 5.0 | |
| 18. | o-toluidine | 95-53-4 | < 5.0 | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | < 5.0 | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | < 5.0 | |
| 21. | o-anisidine | 90-04-0 | < 5.0 | |
| 22. | 4-aminoazobenzene | 60-09-3 | < 5.0 | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | < 5.0 | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | < 5.0 | |

Method detection limit: 5 mg/kg
mg/kg: milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.
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EXAMINED BY SATRA - DO NOT AMEND

TEST REPORT

**REPORT NUMBER:** 16978-19
**RECEIVING DATE:** Jul 10, 2019
**ISSUE DATE:** Jul 12, 2019
**PAGE:** 1 of 3

**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Zarnab Gull.

**Contact details:**
Tel: +92-52-3550773, 3552835, 3250212-3
Fax: +92-52-3563329, 3563376
Cell: +92-345-6699701
Email: inquiry@miryousaf.com

---

**Manufacturer:** Mir Yousaf Leatherware.
**Buyer:** /
**Label:** /
**Fiber *(claimed)*:** 100% Polyester
**Color:** Black
**Style No:** /
**Weight:** /
**P.O No:** /
**Code No:** 101-20-1011
**Vendor Ref No:** /
**Country of Origin:** Pakistan
**Country of Destination:** /
**Sample description:** Play Boy Fabric
**End use:** /

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations



EXAMINED BY SATRA - DO NOT AMEND

## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | pH of an aqueous extract of fabric | See Actual Results |
| 02 | Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants | Pass |

**Digital image of submitted sample**


**Tti Testing Laboratories**
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Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net

EXAMINED BY SATRA - DO NOT AMEND

## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2005)

| | | Requirement |
|---|---|---|
| pH value | 6.61 | -- |

**2. Detection and Determination of Certain Listed Aromatic Amines Derived from Azo Colorants** (BS EN 14362-1: 2017)

Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2017;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
With Extraction
Component Tested: Play Boy Fabric (Black)

| | Forbidden Amine | CAS # | Results (mg/kg) | Requirement |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | N.D | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | N.D | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | N.D | |
| 4. | 2-naphthylamine | 91-59-8 | N.D | |
| 5. | o-aminoazotoluene | 97-56-3 | N.D | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | N.D | |
| 7. | 4-Chloroaniline | 106-47-8 | N.D | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | N.D | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | N.D | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | N.D | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | N.D | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | N.D | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | N.D | |
| 14. | p-cresidine | 120-71-8 | N.D | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | N.D | |
| 16. | 4,4'-oxydianiline | 101-80-4 | N.D | |
| 17. | 4,4'-thiodianiline | 139-65-1 | N.D | |
| 18. | o-toluidine | 95-53-4 | N.D | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | N.D | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | N.D | |
| 21. | o-anisidine | 90-04-0 | N.D | |
| 22. | 4-aminoazobenzene | 60-09-3 | N.D | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | N.D | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | N.D | |

**Notes:**
MDL (Method Detection Limit) = 5 mg/kg
N.D = Not Detected (< MDL)
mg/kg: Milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

EXAMINED BY SATRA - DO NOT AMEND

PNAC Pakistan National Accreditation Council | LAB 022 17025

**REPORT NUMBER:** 23421-19
**RECEIVING DATE:** Oct 05, 2019
**ISSUE DATE:** Oct 14, 2019


**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Zarnab Gull.

**Contact details:**
Tel: 052-3550773, 3552835, 3250212-3
Fax: 052-3563329, 3563376
Cell: 0345-6699701
Email: inquiry@miryousaf.com

---

| | |
|---|---|
| **Manufacturer:** | Mir Yousaf Leatherware. |
| **Buyer:** | / |
| **Label:** | / |
| **Material:** | / |
| **Color:** | Gunmetal |
| **Style No:** | / |
| **Size:** | 5# 4” to 30” – 8# 10” to 30” - 10# 10” to 30” |
| **P.O No:** | / |
| **Code No:** | 001-01-1001- 001-01-1002- 001-01-1003- 001-01-1004- 001-01-1005- 001-01-1006- 001-01-1007- 001-01-1008- 001-01-1009- 001-01-1010- 001-01-1011- 001-01-1012- 001-01-1027- 001-01-1016- 001-01-1017- 001-01-1018- 001-01-1034 |
| **Vendor Ref No:** | / |
| **Country of Origin:** | Pakistan |
| **Country of Destination:** | / |
| **Sample Description:** | Thumb Slider Zippers in all sizes |
| **End use:** | / |
| **Previous Report No.** | 22171-19 |

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations



EXAMINED BY SATRA - DO NOT AMEND

Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | Nickel Release | Pass |

**Digital image of submitted sample**

**Tti Testing Laboratories**
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Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net

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## Test Results:

**1. Nickel Release** (BS EN 1811:2011 + A3: 2018)

| Test Item | Sample Area ($cm^2$) | Volume of Test Solution (ml) | Nickel release(µg/$cm^2$/week) | | | Conclusion |
|---|---|---|---|---|---|---|
| | | | Trial 1 | Trial 2 | Trial 3 | |
| Slider Puller | 9.52 | 15 | ND | ND | / | Pass |
| Teeth+Stopper | 3.25 | 5 | N.D | N.D | / | Pass |

Note:
1. (µg/$cm^2$/week)=microgram per square centimeter per week
2. ND= Not detected
3. Detection Limit=0.05 µg/$cm^2$/week
4. CR 12471:2002 Clauses 5.3.4 is employed for Nickel screening. For coated samples, simulation of wear and corrosion by the EN 12472:2005+ A1:2009 will be performed for any negative findings by screening.

Comments are given according to Annex A of EN1811:2011 + AC: 2015 as below:

| Migration Limits (Entry No 27 under ANNEX XVII of REACH) | Nickel release (µg/$cm^2$/week) (Consideration of 46% Uncertainty) | |
|---|---|---|
| | PASS | Fail |
| Articles with direct, prolonged skin contact: 0.88 µg/$cm^2$/week | < 0.88 | ≥ 0.88 |
| Post assemblies for Ear and Body Piercing: 0.35 µg/$cm^2$/week | < 0.35 | ≥ 0.35 |

--------- END OF REPORT ----------

**Tti Testing Laboratories**
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PNAC LAB 022 17025

**REPORT NUMBER:** 06278-20
**RECEIVING DATE:** Mar 16, 2020
**ISSUE DATE:** Mar 25, 2020
**PAGE:** 1 of 3

**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Nafees Ahmad.

**Contact details:**
Tel: 052-3550773, 3552835, 3250212-3
Fax: 052-3563329, 3563376
Cell: 0321-6134961
Email: sampling@miryousaf.com

---

**Manufacturer:** Mir Yousaf Leatherware.
**Buyer:** /
**Label:** /
**Type:** Metal
**Color:** Gunmetal
**Style No:** /
**Size:** /
**P.O No:** /
**Code No:** /
**Vendor Ref No:** /
**Country of Origin:** Pakistan
**Country of Destination:** /
**Sample Description:** Shank Button
**End use:** /

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations

**Tti Testing Laboratories**
**347-S, Quaid-E-Azam Industrial Estate, Kot Lakhpat, Lahore-54500, Pakistan.**
**Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net**

EXAMINED BY SATRA - DO NOT AMEND

Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01 | Nickel Release | Pass |

**Digital image of submitted sample**

**Tti Testing Laboratories**
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Tel: (+92-42) 111 786 001 Fax: (+92-42) 3515 4555 Website: www.ttilabs.net

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## Test Results:

**1. Nickel Release** (BS EN 1811:2011 + A3: 2018)

| Test Item | Sample Area ($cm^2$) | Volume of Test Solution (ml) | Nickel release(µg/$cm^2$/week) | | | Conclusion |
|---|---|---|---|---|---|---|
| | | | Trial 1 | Trial 2 | Trial 3 | |
| Shank Button | 4.52 | 5 | 0.35 | 0.36 | / | Pass |

Note:
1. (µg/$cm^2$/week)=microgram per square centimeter per week
2. ND= Not detected
3. Detection Limit=0.05 µg/$cm^2$/week
4. CR 12471:2002 Clauses 5.3.4 is employed for Nickel screening. For coated samples, simulation of wear and corrosion by the EN 12472:2005+ A1:2009 will be performed for any negative findings by screening.

Comments are given according to Annex A of EN1811:2011 + AC: 2015 as below:

| Migration Limits (Entry No 27 under ANNEX XVII of REACH) | Nickel release (µg/$cm^2$/week) (Consideration of 46% Uncertainty) | |
|---|---|---|
| | PASS | Fail |
| Articles with direct, prolonged skin contact: 0.88 µg/$cm^2$/week | < 0.88 | ≥ 0.88 |
| Post assemblies for Ear and Body Piercing: 0.35 µg/$cm^2$/week | < 0.35 | ≥ 0.35 |

--------- END OF REPORT ----------

**Tti Testing Laboratories**
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EXAMINED BY SATRA - DO NOT AMEND

PNAC LAB 022 17025

# TEST REPORT

**REPORT NUMBER:** 10639-21
**RECEIVING DATE:** Jun 17, 2021
**ISSUE DATE:** Jun 19, 2021


**Customer:** **Mir Yousaf Leatherware.**
**Address:** P.O Box# 461, Mir House, 5 Km, Daska Road, Sadra Badra Sialkot - Pakistan.

**Contact person:** Mr. Nafees Ahmed

**Contact details:**
Tel: 052-3550773, 3552835, 3250212-3
Fax: 052-3563329, 3563376
Cell: 0321-6134961
Email: sampling@miryousaf.com ; maroof@miryousaf.com

---

**Manufacturer:** Mir Yousaf Leatherware.
**Buyer:** /
**Fiber Contents** (Claimed)**:** 65% Polyester, 35% Cotton
**Material:** /
**Color:** Black
**Style No:** /
**Weight:** /
**P.O No:** /
**Code No:** /
**Country of Origin:** Pakistan
**Country of Destination:** /
**Sample description:** Fabric Swatch
**End use:** /

Signed on the behalf of:
Tti Testing Laboratories

**Ali Ashraf**
General Manager Operations





EXAMINED BY SATRA - DO NOT AMEND

TEST REPORT



## Test Conducted:

| Sr. No | Test properties | Test Results |
|---|---|---|
| 01. | pH of an aqueous extract of fabric | See Actual Results |
| 02. | Determination of the banned azo colorants | Pass |

**Digital image of submitted sample**



Tti Testing Laboratories
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TEST REPORT



## Test Results:

**1. pH of an aqueous extract of fabric:** (ISO 3071:2020) **Requirement**

Temperature: 22.8°C, pH of KCL Solution: 6.20

| | Results | |
|---|---|---|
| pH value: | 7.28 | -- |

**2. Determination of the banned azo colorants:** (BS EN ISO 14362-1: 2017)

Determination of 4-aminoazobenzene (CAS No.:60-09-3) BS EN 14362-3:2017;
With the use of Gas Chromatography Mass Spectrometry (GC-MS)
Component Tested: Fabric Swatch (Black)

| | Forbidden Amine | CAS # | Results (mg/kg) | Requirement |
|---|---|---|---|---|
| 1. | 4-Aminobiphenyl | 92-67-1 | N.D | 30 mg/kg |
| 2. | Benzidine | 92-87-5 | 8.69 | |
| 3. | 4-Chloro-O-toluidine | 95-69-2 | N.D | |
| 4. | 2-naphthylamine | 91-59-8 | N.D | |
| 5. | o-aminoazotoluene | 97-56-3 | N.D | |
| 6. | 5-nitro-0-toluidine | 99-55-8 | N.D | |
| 7. | 4-Chloroaniline | 106-47-8 | N.D | |
| 8. | 2,4'-diaminoanisole | 615-05-4 | N.D | |
| 9. | 4,4'- diaminodiphenylmethane | 101-77-9 | N.D | |
| 10. | 3,3'-Dichlorobenzidine | 91-94-1 | N.D | |
| 11. | 3,3'-dimethoxybenzidine | 119-90-4 | N.D | |
| 12. | 3,3'-Dimethylbenzidine | 119-93-7 | N.D | |
| 13. | 4,4'-methylenedi-o-toluidine | 838-88-0 | N.D | |
| 14. | p-cresidine | 120-71-8 | N.D | |
| 15. | 4,4'-methylene-bis(2- chloro-aniline) | 101-14-4 | N.D | |
| 16. | 4,4'-oxydianiline | 101-80-4 | N.D | |
| 17. | 4,4'-thiodianiline | 139-65-1 | N.D | |
| 18. | o-toluidine | 95-53-4 | N.D | |
| 19. | 4-methyl-m-phenylediamine | 95-80-7 | N.D | |
| 20. | 2,4,5-Trimethylaniline | 137-17-7 | N.D | |
| 21. | o-anisidine | 90-04-0 | N.D | |
| 22. | 4-aminoazobenzene | 60-09-3 | N.D | |
| 23. | 2,4-Dimethylaniline / 2,4-xylidine | 95-68-1 | N.D | |
| 24. | 2,6-Dimethylaniline / 2,6-xylidine | 87-62-7 | N.D | |

**Notes:**
MDL (Method Detection Limit) = 5 mg/kg
N.D = Not Detected (< MDL)
mg/kg: Milligram per kilogram
mg/kg = ppm (parts per million)

--------- END OF REPORT ---------



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| | | |
|---|---|---|
| SPORT CRITT LOISIRS | **RAPPORT D'ESSAIS SUR MATERIAUX**<br>*MATERIAL TEST REPORT* | Date :<br>07/09/2023 |
| N° DOSSIER :<br>08-23-1464 | **N° DOCUMENT : ES08/23/1464** | Page :<br>1 sur 21 |

Propriétaire :
*Owner*

**MIR YOUSAF**
**Daska Road, Dakwala**
**Sadra Badra - SIALKOT**
**PAKISTAN**

Objet :
*Object*

**Essais selon Devis n° DV2023-0865**
***Tests according to Quote n° DV2023-0865***

Documents de référence :
*Reference documentation*

**NF EN 17092-1 ; -2 ; -3 ; -4 ; -5 ; -6 : 2020**
***NF EN 17092-1 ; -2 ; -3 ; -4 ; -5 ; -6 : 2020***

Echantillons :
*Sample*

**Matières premières**
***Materials***

Date de réception de l'échantillon :
*Date of receipt sample*

**16/08/2023**
*08/16/2023*

Date de début des essais :
*Start date of the tests*

**22/08/2023**
*08/22/2023*



Signature numérique de Simon GUYONNEAU
Date : 2023.09.08 14:39:33 +02'00'

**Responsable Pôle Moto**
***Moto Pole Manager***

**CRITT SPORT LOISIRS (Centre Régional d'Innovation et de Transfert de Technologie)**
ZA du Sanital – 21 Rue Albert Einstein, 86100 CHATELLERAULT-France
☎ : 33 (0)5 49 85 38 30 : 33 (0)5 49 21 76 20 Courriel : contact@critt-sl.eu Site Internet : http://www.critt-sl.com

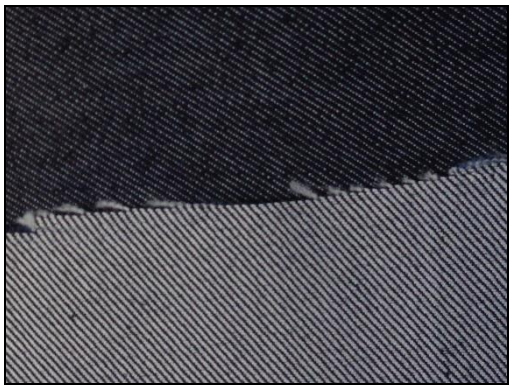
ACCREDITATION N° 1-1570
PORTÉE DISPONIBLE
SUR WWW.COFRAC.FR

EXAMINED BY SATRA - DO NOT AMEND

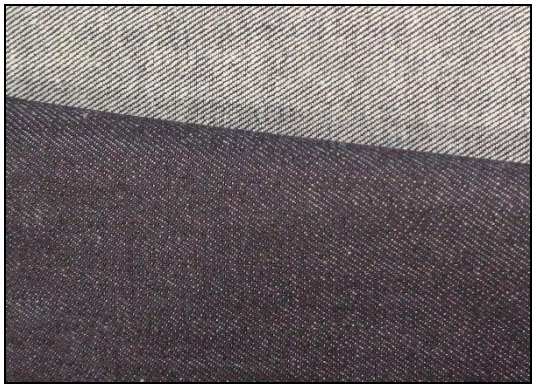
## 1. METHODES DE LAVAGE ET DE SECHAGE DOMESTIQUES AVANT ESSAIS
## *DOMESTIC WASHING AND DRYING METHODS FOR TESTING*

23-2292-1 : Flannel

23-2292-2 : Cordura Coolmax

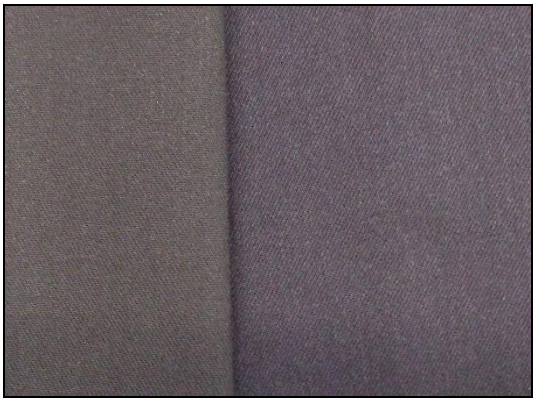


23-2292-3 : Denim Stretch cordura

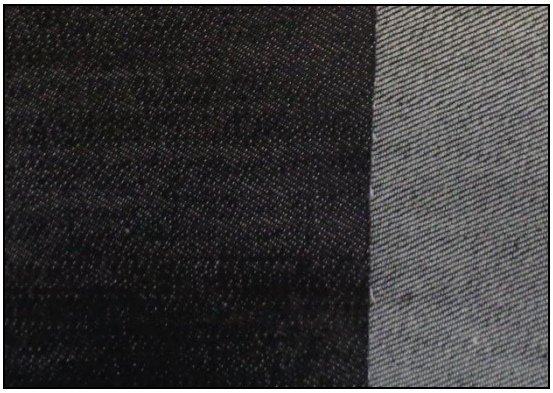


23-2292-4 : Nat-Denim Black

23-2292-5 : CAG-Denim Blue



23-2292-6 : Organic Denim

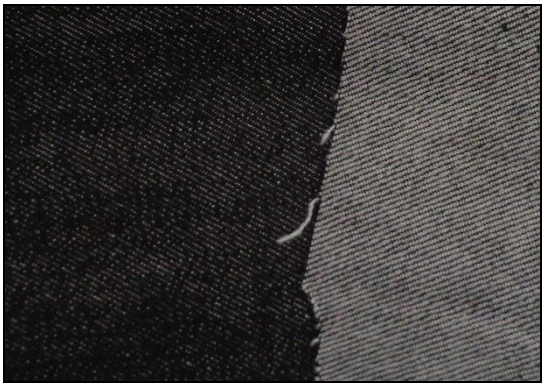


23-2292-7 : FI DENIM

23-2292-8 : Denim Stretch 1223 blue

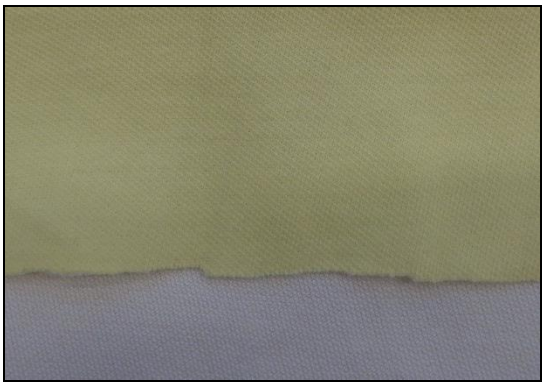
23-2292-9 : Denim Stretch 1223 black

23-2292-10 : Nylon Oxford



23-2292-11 : Big Hole Mesh

23-2292-12 : Kevlar 60-40



| SPORT CRITT LOISIRS | **RAPPORT D'ESSAIS SUR MATERIAUX**<br>*MATERIAL TEST REPORT* | Date :<br>07/09/2023 |
|---|---|---|
| N° DOSSIER :<br>08-23-1464 | **N° DOCUMENT : ES08/23/1464** | Page :<br>4 sur 21 |

| Technicien *Technician* | **Margot ROLDAN** | Date de début des essais *Test start date* | **22/08/2023** |
|---|---|---|---|
| Température °C *Temperature* | **23** | Hygrométrie % *Hygrometry* | **50** |

| Echantillon<br>*Sample* | Fournisseur<br>*Supplier* | Descriptif de la matière / Référence<br>*Material descriptive / Reference* | Lavage<br>*Washing* | Séchage<br>*Drying* |
|---|---|---|---|---|
| 23-2292-1 | MIR YOUSAF | Flannel | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-2 | MIR YOUSAF | Cordura Coolmax | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-3 | MIR YOUSAF | Denim Stretch cordura | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-4 | MIR YOUSAF | Nat-Denim Black | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-5 | MIR YOUSAF | CAG-Denim Blue | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-6 | MIR YOUSAF | Organic Denim | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-7 | MIR YOUSAF | FI DENIM | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-8 | MIR YOUSAF | Denim Stretch 1223 blue | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-9 | MIR YOUSAF | Denim Stretch 1223 black | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-10 | MIR YOUSAF | Nylon Oxford | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-11 | MIR YOUSAF | Big Hole Mesh | 3N | Méthode A sur fil<br>*Method A on wire* |
| 23-2292-12 | MIR YOUSAF | Kevlar 60-40 | 3N | Méthode A sur fil<br>*Method A on wire* |

## 2. RESISTANCE A L'ABRASION PAR IMPACT NF EN 17092

***IMPACT ABRASION RESISTANCE NF EN 17092***

**Tableau de synthèse des essais *Summary table of tests***

| | | | |
|---|---|---|---|
| N° Echantillon *Sample no* | 23-2292 | Fournisseur *Supplier* | **MIR YOUSAF** |
| Technicien *Technician* | **Margot ROLDAN** | Date de début des essais *Test start date* | **01/09/2023** |
| Température °C *Temperature* | **23** | Hygrométrie % *Hygrometry* | **50** |

| Essai *Test* | 1ère couche *1ST layer* | 2ème couche *2ND layer* | 3ème couche *3RD layer* | Vitesse *Spead* | Résultats *Results* |
|---|---|---|---|---|---|
| 1 | Flannel | Flannel | / | 265 tr/min | C |
| 2 | Cordura Coolmax | / | / | 412 tr/min | C |
| 3 | Cordura Coolmax | / | / | 442 tr/min | C |
| 4 | Cordura Coolmax | Kevlar 40-60 | Big Hole Mesh | 707 tr/min | C |
| 5 | Denim Stretch Cordura | Big Hole Mesh | / | 412 tr/min | C |
| 6 | Nat Denim | / | / | 412 tr/min | NC |
| 7 | Cag Denim | / | / | 412 tr/min | NC |
| 8 | Organic Denim | / | / | 265 tr/min | C |
| 9 | FI Denim | / | / | 412 tr/min | NC |
| 10 | Denim Stretch 1223 blue | / | / | 265 tr/min | C |
| 11 | Denim Stretch 1223 black | / | / | 265 tr/min | C |
| 12 | Nylon Oxford | / | / | 265 tr/min | NC |
| 13 | Nylon Oxford | Kevlar 40-60 | Big Hole Mesh | 412 tr/min | C |

***Légende* : *C* Conforme *NC* Non Conforme**

## ESSAIS *TEST*

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *1* | 265 tr/min | *1* | Chaîne *Warp* | *2,56* | *15,90* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *2,62* | *16,27* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *2,61* | *16,01* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *2* | 412 tr/min | *1* | Chaîne *Warp* | *3,89* | *35,87* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *3,82* | *35,53* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *3,93* | *35,82* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *3* | 442 tr/min | *1* | Chaîne *Warp* | *4,12* | *40,12* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *4,24* | *41,22* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *4,27* | *41,38* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *4* | 707 tr/min | *1* | Chaîne *Warp* | *5,80* | *86,38* | *C* | *1* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *1* | |
| | | *3* | 45° | | | *C* | *1* | |
| | | *1* | 45° | *5,90* | *86,51* | *C* | *1* | |
| | | *2* | Chaîne *Warp* | | | *C* | *1* | |
| | | *3* | Trame *Weft* | | | *C* | *1* | |
| | | *1* | Trame *Weft* | *5,84* | *86,10* | *C* | *1* | |
| | | *2* | 45° | | | *C* | *1* | |
| | | *3* | Chaîne *Warp* | | | *C* | *1* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *5* | 412 tr/min | *1* | Chaîne *Warp* | *4,03* | *36,88* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *4,00* | *36,59* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *3,95* | *35,68* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *6* | 412 tr/min | *1* | Chaîne *Warp* | *3,66* | *33,29* | *C* | *0* | *Non conforme / Not conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *3,66* | *34,32* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *NC* | *1* | |
| | | *1* | Trame *Weft* | *3,63* | *33,96* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *7* | 412 tr/min | *1* | Chaîne *Warp* | *3,93* | *35,75* | *C* | *0* | *Non conforme / Not conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *4,00* | *37,68* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *NC* | *1* | |
| | | *1* | Trame *Weft* | *3,53* | *32,30* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *8* | 265 tr/min | *1* | Chaîne *Warp* | *2,07* | *13,09* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *2,02* | *12,86* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *1,95* | *12,27* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *9* | 412 tr/min | *1* | Chaîne *Warp* | *2,07* | *13,09* | *C* | *0* | *Non conforme / Not conform* |
| | | *2* | Trame *Weft* | | | *NC* | *1* | |
| | | *3* | 45° | | | *NC* | *1* | |
| | | *1* | 45° | *2,02* | *12,86* | *NC* | *1* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *NC* | *1* | |
| | | *1* | Trame *Weft* | *1,95* | *12,27* | *NC* | *1* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *NC* | *1* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *10* | 265 tr/min | *1* | Chaîne *Warp* | *2,43* | *14,41* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *2,24* | *113,81* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *2,39* | *14,50* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Etoffes *Fabrics***

| Essai *Test* | Vitesse *Speed* | Porte éprouvette *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *11* | 265 tr/min | *1* | Chaîne *Warp* | *1,98* | *12,53* | *C* | *0* | *Conforme / Conform* |
| | | *2* | Trame *Weft* | | | *C* | *0* | |
| | | *3* | 45° | | | *C* | *0* | |
| | | *1* | 45° | *1,85* | *11,95* | *C* | *0* | |
| | | *2* | Chaîne *Warp* | | | *C* | *0* | |
| | | *3* | Trame *Weft* | | | *C* | *0* | |
| | | *1* | Trame *Weft* | *1,87* | *11,98* | *C* | *0* | |
| | | *2* | 45° | | | *C* | *0* | |
| | | *3* | Chaîne *Warp* | | | *C* | *0* | |

**Cuir, non-tissé ou autres matériaux *Leather,non-woven or other materials***

| Essai *Test* | Vitesse *Speed* | Porte échantillon *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *12* | 265 tr/min | *1* | 120° | *2,11* | *12,95* | *NC* | *1* | *Non conforme / Not conform* |
| | | *2* | 240° | | | *C* | *0* | |
| | | *3* | 360° | | | *C* | *0* | |
| | | *1* | 240° | *2,24* | *13,22* | *C* | *0* | |
| | | *2* | 360° | | | *C* | *0* | |
| | | *3* | 120° | | | *NC* | *1* | |
| | | *1* | 360° | *2,10* | *12,92* | *NC* | *1* | |
| | | *2* | 120° | | | *NC* | *1* | |
| | | *3* | 240° | | | *NC* | *1* | |

**Cuir, non-tissé ou autres matériaux *Leather,non-woven or other materials***

| Essai *Test* | Vitesse *Speed* | Porte échantillon *Sample Holder* | Orientation *Orientation* | Tps d'arrêt (s) *Time to stop* | Distance d'arrêt (m) *Distance to stop* | *C / NC* | Nb de couche(s) trouée(s) *Number of layers holed* | *Evaluation finale* *Finale valuation* |
|---|---|---|---|---|---|---|---|---|
| *13* | 412 tr/min | *1* | 120° | *2,82* | *23,96* | *C* | *1* | *Conforme / Conform* |
| | | *2* | 240° | | | *C* | *1* | |
| | | *3* | 360° | | | *C* | *1* | |
| | | *1* | 240° | *2,98* | *25,29* | *C* | *1* | |
| | | *2* | 360° | | | *C* | *1* | |
| | | *3* | 120° | | | *C* | *1* | |
| | | *1* | 360° | *2,89* | *24,07* | *C* | *1* | |
| | | *2* | 120° | | | *C* | *1* | |
| | | *3* | 240° | | | *C* | *1* | |

## 3. Résistance au déchirement NF EN 17092 : CUIR, NON-TISSE OU AUTRES MATERIAUX

***Tearing resistance NF EN 17092 : LEATHER,NON-WOVEN OR OTHER MATERIALS***

**(selon EN ISO 4674 méthode B pour le Textile *according to method B for textile* et *EN ISO* 3377-1 pour le Cuir *for leather* )**

| | | | |
|---|---|---|---|
| N° Echantillon *Sample no* | 23-2292 | Fournisseur *Supplier* | **MIR YOUSAF** |
| Technicien *Technician* | **Margot ROLDAN** | Date de début des essais *Test start date* | **01/09/2023** |
| Température °C *Temperature* | **23** | Hygrométrie % *Hygrometry* | **50** |

| Lavage *Washing* | Séchage *Drying* | Echantillon *Sample* | Résultats *Results* Newton | | | Classe déterminée *Determined class* (N) | | | | | | | Obs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Moyenne *Average* sens 1 | Moyenne *Average* sens 2 | Moyenne *Average* sens 1/sens 2 | Zone | A [a] | AA [b] | AAA [c] | B [d] | C [e] U | C [e] O | |
| 3N | Méthode A sur fil *Method A on wire* | Cag Denim | 53,08 | 41,03 | 47,06 | 1 | 35 | 40 | 50 | 35 | 10 | 35 | / |
| | | | | | | 2 | 25 | 40 | 50 | 25 | 10 | 25 | |
| | | | | | | 3 | 25 | 30 | 35 | 25 | 10 | 25 | |
| | | | | | | poche protecteur *protector pocket* | 10 | 10 | 10 | / | 10 | 10 | |
| 3N | Méthode A sur fil *Method A on wire* | Cordura Coolmax | 64,25 | 77,80 | 71,03 | 1 | 35 | 40 | 50 | 35 | 10 | 35 | / |
| | | | | | | 2 | 25 | 40 | 50 | 25 | 10 | 25 | |
| | | | | | | 3 | 25 | 30 | 35 | 25 | 10 | 25 | |
| | | | | | | poche protecteur *protector pocket* | 10 | 10 | 10 | / | 10 | 10 | |
| 3N | Méthode A sur fil *Method A on wire* | Denim Stretch Cordura | 33,90 | 30,70 | 32,3 | 1 | 35 | 40 | 50 | 35 | 10 | 35 | / |
| | | | | | | 2 | 25 | 40 | 50 | 25 | 10 | 25 | |
| | | | | | | 3 | 25 | 30 | 35 | 25 | 10 | 25 | |
| | | | | | | poche protecteur *protector pocket* | 10 | 10 | 10 | / | 10 | 10 | |

| SPORT CRITT LOISIRS | **RAPPORT D'ESSAIS SUR MATERIAUX**<br>*MATERIAL TEST REPORT* | Date :<br>07/09/2023 |
|---|---|---|
| N° DOSSIER :<br>08-23-1464 | **N° DOCUMENT : ES08/23/1464** | Page :<br>20 sur 21 |

| Lavage *Washing* | Séchage *Drying* | Echantillon *Sample* | Résultats *Results* *Newton* | | | **Classe déterminée *Determined class* (N)** | | | | | | | Obs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Moyenne *Average* sens 1 | Moyenne *Average* sens 2 | Moyenne *Average* sens 1/sens 2 | Zone | **A [a]** | **AA [b]** | **AAA [c]** | **B [d]** | **C [e]** U | **C [e]** O | |
| 3N | Méthode A sur fil *Method A on wire* | FI DENIM | 56,54 | 51,70 | 54,12 | 1 | **35** | **40** | **50** | **35** | **10** | **35** | / |
| | | | | | | 2 | **25** | **40** | **50** | **25** | **10** | **25** | |
| | | | | | | 3 | **25** | **30** | **35** | **25** | **10** | **25** | |
| | | | | | | poche protecteur *protector pocket* | **10** | **10** | **10** | **/** | **10** | **10** | |
| 3N | Méthode A sur fil *Method A on wire* | Nat Denim | 33,26 | 33,60 | 33,43 | 1 | **35** | **40** | **50** | **35** | **10** | **35** | / |
| | | | | | | 2 | **25** | **40** | **50** | **25** | **10** | **25** | |
| | | | | | | 3 | **25** | **30** | **35** | **25** | **10** | **25** | |
| | | | | | | poche protecteur *protector pocket* | **10** | **10** | **10** | **/** | **10** | **10** | |
| 3N | Méthode A sur fil *Method A on wire* | Nylon Oxford | 60,67 | 58,83 | 59,75 | 1 | **35** | **40** | **50** | **35** | **10** | **35** | / |
| | | | | | | 2 | **25** | **40** | **50** | **25** | **10** | **25** | |
| | | | | | | 3 | **25** | **30** | **35** | **25** | **10** | **25** | |
| | | | | | | poche protecteur *protector pocket* | **10** | **10** | **10** | **/** | **10** | **10** | |
| 3N | Méthode A sur fil *Method A on wire* | Organic Denim | 53,14 | 52,27 | 52,71 | 1 | **35** | **40** | **50** | **35** | **10** | **35** | / |
| | | | | | | 2 | **25** | **40** | **50** | **25** | **10** | **25** | |
| | | | | | | 3 | **25** | **30** | **35** | **25** | **10** | **25** | |
| | | | | | | poche protecteur *protector pocket* | **10** | **10** | **10** | **/** | **10** | **10** | |

***Légende* : Résultats en rouge = Non conforme  Results in red = not conform**

« O » : Ensemble à porter sur le vêtement *Overgarment*

« U » : ensemble à porter sous le vêtement *Undergarment*

([a]) CLASSE A : Vêtements qui offrent une protection contre les chocs et l'abrasion en employant des matériaux et une fabrication qui satisfont à des exigences inférieures à celles des vêtements en classe AA et AAA. *Offer a minimum necessary degree of protection from impact and abrasion, using materials and construction that meet lower requirements than for garments in Class AA and AAA.*

([b]) CLASSE AA : Vêtements qui offrent une protection contre les chocs et l'abrasion en employant des matériaux et une fabrication qui satisfont à des exigences supérieures à celles des vêtements en classe A et inférieures à celle des vêtements en classe AAA. *Offer protection from impact and abrasion, using materials and construction that meet higher requirements than for garments Class A and lower requirements than for garments Class AAA.*

([c]) CLASSE AAA : Vêtements qui offrent une protection contre les chocs et l'abrasion en employant des matériaux et une fabrication qui satisfont à des exigences supérieures à celles des vêtements en classe A et AA. *Offer protection from impact and abrasion, using materials and construction that meet higher requirements than for garments of Class A and AA.*

([d]) CLASSE B : Ces vêtements sont spécialisés et conçus pour offrir une protection contre l'abrasion équivalente à celles de Classe A mais sans l'inclusion de protecteurs contre les chocs. *This class is for specialized garments, designed to provide the equivalent abrasion protection of Class A garments but without the inclusion of impact protectors.*

([e]) CLASSE C : cette classe est destinée aux vêtements spécialisés, sans armature, de type « ensemble de protection contre les chocs » et conçus pour intégrer un ou plusieurs protecteurs contre les chocs, que ceux-ci soient portés sous ou sur le vêtement. *This class is for specialized non-shell, impact protector ensemble garments, designed only to hold one or more impact protectors in place, either as an undergarment or as an overgarment.*

**La Conformité ou Non-conformité de l'équipement soumis à essais est délivrée au regard des résultats des tests réalisés**
***Conformity or Non-conformity of the equipment under test is issued according to the results of tests carried***

**FIN DU RAPPORT D'ESSAIS**
***END OF TEST REPORT***



EXAMINED BY SATRA - DO NOT AMEND