



# TESTS REPORT SUMMARY

Issued by CTC Lyon

CTC, Notified Body N° 0075, based in Lyon, France.

CTC Lyon (accreditation N°1-0130) is fully ISO/EC 17025 accredited by COFRAC the national accreditation organization of FRANCE, a member of ILAC-MRI.

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13<sup>th</sup> of June, 2022

We, CTC Lyon, confirm that the information given below comes from testing performed in our laboratory.

Applicant: MILLE SAS – 69 rue Marcel Valérian – FR 84350 Courthézon

Style #: RUTG3

Buyer and Style #: UNITAN – RUTG3

Standard and Product category: EN ISO 20345:2011, S3 HI CI SRC

Testing	Requirement	Result	Conformity
<b>5.2.2 Height of upper (Design C)</b>			
Height of upper-size 39	≥172mm	240 mm	Pass
Height of upper-size 43	≥185mm	254 mm	Pass
Height of upper-size 48	≥192mm	269 mm	Pass
<b>5.2.3 Seat region</b>			
Size 37/43/48	Conformity	Conform	Pass
<b>5.3.1.1 Sole performance-Construction</b>			
Size 39	Conformity	Conform	Pass
Size 43	Conformity	Conform	Pass
Size 48	Conformity	Conform	Pass
<b>5.3.1.2 Upper/outsole bond strength</b>			
Size 39-Bond strength (average)	≥3,0N/mm	3.2 N/mm	Pass
Size 43-Bond strength (average)	≥3,0N/mm	4.1 N/mm	Pass
Size 48-Bond strength (average)	≥3,0N/mm	3.5 N/mm	Pass
<b>5.3.2.1 Toe protection-General</b>			
Size 39	Conformity	Conform	Pass
Size 43	Conformity	Conform	Pass
Size 48	Conformity	Conform	Pass
<b>5.3.2.2 Determination of internal toecap length</b>			
Size 39- left foot	≥38mm	40.5 mm	Pass
Size 39- right foot	≥38mm	41.0 mm	
Size 43- left foot	≥40mm	42.5 mm	Pass
Size 43- right foot	≥40mm	41.0 mm	
Size 48- left foot	≥42mm	48.0 mm	Pass
Size 48- right foot	≥42mm	48.0 mm	
<b>5.3.2.3 Impact resistance:</b>			
Size 39-clearance-left foot	≥13.5mm	14.0 mm	Pass
Size 39-clearance-right foot	≥13.5mm	14.0 mm	

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Development of cracks	Conformity	Conform	
Size 43-clearance-left foot	≥14.5mm	15.0 mm	Pass
Size 43-clearance-right foot	≥14.5mm	14.5 mm	
Development of cracks	Conformity	Conform	
Size 48-clearance-left foot	≥15.0mm	15.0 mm	Pass
Size 48-clearance-right foot	≥15.0mm	15.5 mm	
Development of cracks	Conformity	Conform	
<b>5.3.2.4 Compression resistance:</b>			
Size 39-clearance-left foot	≥13.5mm	17.0 mm	Pass
Size 39-clearance-right foot	≥13.5mm	15.5 mm	
Development of cracks	Conformity	Conform	
Size 43-clearance-left foot	≥14.5mm	16.0 mm	Pass
Size 43-clearance-right foot	≥14.5mm	16.5 mm	
Development of cracks	Conformity	Conform	
Size 48-clearance-left foot	≥15.0mm	17.0 mm	Pass
Size 48-clearance-right foot	≥15.0mm	16.5 mm	
Development of cracks	Conformity	Conform	
<b>5.3.2.5.2 Behavior of non-metallic toe cap (EN 12568)</b>			
Size 39	Conformity	Conform	Pass
Size 48	Conformity	Conform	Pass
<b>5.3.4 Specific ergonomic features</b>			
Size 39/43/48	Is the inside surface of the footwear free from rough, sharp or hard areas that caused you irritation or injury?	Yes	Pass
	Is the footwear free of features that you consider to make wearing the shoes hazardous?	Yes	
	Can the fastening be adequately adjusted? (if necessary)	NA	
	Can we walk without problems?	Yes	
	Can we climb stairs without problems?	Yes	
	Can we kneel or crouch down without problems ?	Yes	
<b>5.3.5 Slip resistance - SRC (SRA+SRB)</b>			
Size 39-SRA			
Coefficient- Flat position	≥0.32	0.42	Pass

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Coefficient- Heel position	≥0.28	0.41	
Size 39-SRB			
Coefficient- Flat position	≥0.18	0.22	Pass
Coefficient- Heel position	≥0.13	0.13	
Size 43-SRA			
Coefficient- Flat position	≥0.32	0.45	Pass
Coefficient- Heel position	≥0.28	0.41	
Size 43-SRB			
Coefficient- Flat position	≥0.18	0.25	Pass
Coefficient- Heel position	≥0.13	0.16	
Size 48-SRA			
Coefficient- Flat position	≥0.32	0.41	Pass
Coefficient- Heel position	≥0.28	0.38	
Size 48-SRB			
Coefficient- Flat position	≥0.18	0.19	Pass
Coefficient- Heel position	≥0.13	0.18	
<b>5.4.3 Upper: Tear strength (VACRAZ – COW FULL GRAIN LEATHER 20-22)</b>			
Strength (leather)	≥120N	138 N	Pass
<b>5.4.6 Upper: Water vapour permeability and coefficient (VACRAZ – COW FULL GRAIN LEATHER 20-22)</b>			
Water vapour permeability	≥0.8mg/(cm <sup>2</sup> .h)	7.3 mg/(cm <sup>2</sup> .h)	Pass
Water vapour coefficient	≥15.0mg/cm <sup>2</sup>	68.9 mg/cm <sup>2</sup>	
<b>5.4.7 Upper: pH value (VACRAZ – COW FULL GRAIN LEATHER 20-22)</b>			
pH value	>3.2	3.85	Pass
Difference figure	<0.7	0.40	
<b>5.4.9 Upper: Hexavalent Chromium (CrVI) (VACRAZ – COW FULL GRAIN LEATHER 20-22)</b>			
Hexavalent Chromium (CrVI)	<3 mg/kg	<0.5 mg/kg	Pass
<b>5.5.1 Collar: Tear strength (DMINN2 - MICROFIBER)</b>			
Strength (textile)	≥15N	165N	Pass
<b>5.5.2 Collar: Abrasion resistance (DMINN2 - MICROFIBER)</b>			
No. of cycles to obtain hole in dry	>25600 cycles	No hole	Pass
No. of cycles to obtain hole in wet	>12800 cycles	>25600 cycles >12800 cycles	
<b>5.5.1 Collar: Tear strength (FUNNOR – TEXTILE COAG FUN STRONG)</b>			
Strength (textile)	≥15N	25N	Pass
<b>5.5.2 Collar: Abrasion resistance (FUNNOR – TEXTILE COAG FUN STRONG)</b>			
No. of cycles to obtain hole in dry	>25600 cycles	No hole	Pass
No. of cycles to obtain hole in wet	>12800 cycles	>25600 cycles >12800 cycles	

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<b>5.5.1 Seat region &amp; quarter lining &amp; Vamp lining: Tear strength</b>			
Seat region: AGLIGF - Textile	≥15N	18N	Pass
Quarter lining : TOSNO3 – Textile sanitized	≥15N	32N	Pass
Vamp lining: IBITHE – Non woven	≥15N	109N	Pass
<b>5.5.2 Seat region &amp; quarter lining &amp; Vamp lining: Abrasion resistance</b>			
Seat region: AGLIGF – Heel grip Textile		No hole	
No. of cycles to obtain hole in dry	>51200 cycles	>51200 cycles	Pass
No. of cycles to obtain hole in wet	>25600 cycles	>25600 cycles	
Quarter lining : TOSNO3 – Textile sanitized		No hole	Pass
No. of cycles to obtain hole in dry	>25600 cycles	>25600 cycles	
No. of cycles to obtain hole in wet	>12800 cycles	>12800 cycles	
Vamp lining: IBITHE – Non woven		No hole	
No. of cycles to obtain hole in dry	>25600 cycles	>25600 cycles	Pass
No. of cycles to obtain hole in wet	>12800 cycles	>12800 cycles	
<b>5.5.3 Seat region &amp; quarter lining &amp; Vamp lining :Water vapour permeability and coefficient</b>			
AGLIGF-Water vapour permeability	≥2.0mg/(cm <sup>2</sup> .h)	8.1 mg/(cm <sup>2</sup> .h)	
AGLIGF-Water vapour coefficient	≥20.0mg/cm <sup>2</sup>	65.5 mg/cm <sup>2</sup>	Pass
TOSNO3-Water vapour permeability	≥2.0mg/(cm <sup>2</sup> .h)	30.2 mg/(cm <sup>2</sup> .h)	
TOSNO3-Water vapour coefficient	≥20.0mg/cm <sup>2</sup>	242.3 mg/cm <sup>2</sup>	Pass
IBITHE-Water vapour permeability	≥2.0mg/(cm <sup>2</sup> .h)	47.7 mg/(cm <sup>2</sup> .h)	
IBITHE-Water vapour coefficient	≥20.0mg/cm <sup>2</sup>	382.0 mg/cm <sup>2</sup>	Pass
<b>5.7.1 Insole: Thickness (PLMANT – Textile)</b>			
Thickness	>2.0mm	2.6 mm	Pass
<b>5.7.3 Insole: Water absorption&amp; desorption (PLMANT – Textile)</b>			
Water absorption	≥70mg/cm <sup>2</sup>	140 mg/cm <sup>2</sup>	
Water desorption	≥80%	100%	Pass
<b>5.7.4.1 Insole: Abrasion resistance (PLMANT – Textile)</b>			
Abrasion	Conformity of the surface degradation after 400 cycles	>400	Pass
<b>5.7.1 Insock: Thickness (PRPHOM – TEXTILE MEN)</b>			
PRPHOM-Textile men-Water absorption	≥2.0 mm	3.7 mm	Pass
<b>5.7.3 Insock: Water absorption&amp; desorption (PRPHOM – TEXTILE MEN)</b>			
PRPHOM-Textile men-Water absorption	≥70mg/cm <sup>2</sup>	292mg/cm <sup>2</sup>	
PRPHOM-Textile men-Water desorption	≥80%	100%	Pass
<b>5.7.4.2 Insock: Abrasion resistance (PRPHOM – TEXTILE MEN)</b>			
PRPHOM-Textile men		No hole	

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No. of cycles to obtain hole in dry	>25600 cycles	>25600 cycles	Pass
No. of cycles to obtain hole in wet	>12800 cycles	>12800 cycles	
<b>5.8 Outsole</b>			
<b>5.8.1.1 Thickness</b>			
Size 39 – d1	≥4mm	8.5mm	Pass
Size 43 – d1	≥4mm	5.0mm	
Size 48 – d1	≥4mm	10.1mm	
Size 39 – d2	≥2.5mm	5.4mm	Pass
Size 43 – d2	≥2.5mm	5.4mm	
Size 48 – d2	≥2.5mm	5.2mm	
<b>5.8.1.2 Cleated area</b>			
Size 39	Conformity	Conform	Pass
Size 43	Conformity	Conform	
Size 48	Conformity	Conform	
<b>5.8.1.3 Cleat height</b>			
Size 39 – d2	≥2.5mm	5.4mm	Pass
Size 43 – d2	≥2.5mm	5.4mm	
Size 48 – d2	≥2.5mm	5.2mm	
<b>5.8.2 Determination of tear strength of outsole</b>			
Size: 39/43/48	≥8.0 kN/m	15.5/12.1/14.4	Pass
<b>5.8.3 Determination of abrasion resistance of outsole</b>			
Density (Size: 39/43/48)	g/cm <sup>3</sup>	1.18/1.12/1.20	Pass
Relative volume loss (Size: 39/43/48)	≤150 mm <sup>3</sup>	18/17/12	
<b>5.8.4 Outsole: Flex resistance</b>			
Size 39- angle under force 30N, >45°	Cut growth after 30000 flex cycles ≤4.0mm No crack	0.0 mm / No crack	Pass
Size 43 - angle under force 30N, >45°		0.0 mm / No crack	Pass
Size 48 - angle under force 30N, >45°		0.0 mm / No crack	Pass
<b>5.8.5 Hydrolisis</b>			
Cut growth after 150000 flex cycles (Size: 39 / 43 /48)	≤6 mm	0.0 / 0.0 / 0.0	Pass
<b>5.8.6 Determination of interlayer/outsole bond strength</b>			
Delamination appearance (39/43/48)		S1-Surface breakdown of the interlayer	Pass
Bond strength – average (39/43/48)	≥3.0 N/mm	6.0/4.3/7.0	

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<b>Outsole/Midsole: other analysis</b>			
Organo tin Outsole	<100 mg/kg	<100 mg/kg	Pass
Organo tin Midsole	<100 mg/kg	<100 mg/kg	Pass
Total Heavy Metals Content (OSn) Outsole	<1000 mg/kg	<1000 mg/kg	Pass
Total Heavy Metals Content (OSn) Midsole	<1000 mg/kg	<1000 mg/kg	Pass
<b>6.2.1 Penetration resistance</b>			
Size 39-Penetration force	≥1100N	1126 N	Pass
Size 43-Penetration force	≥1100N	1193 N	
Size 48-Penetration force	≥1100N	1315 N	
	No penetration	No penetration	
<b>6.2.1.2 Construction of penetration-resistant insert (SEAM60)</b>			
Size 39	Construction conformity	Conform	Pass
Size 43	Construction conformity	Conform	Pass
Size 48	Construction conformity	Conform	Pass
<b>6.2.1.3 Insert dimension (SEAM60)</b>			
Size 39	Dimension conformity (X and Y)	Conform	Pass
Size 43	No holes in the shadow area	Conform	Pass
Size 48	No more than 3 holes of maximum diameter 3 mm	Conform	Pass
<b>6.2.1.4 Determination of the flex resistance of penetration-resistant inserts</b>			
Size 39	Cycles to obtain a visible sign of crack ≥1000000 flexes Observed damage- Conformity	>1000000 flexes Conform	Pass
Size 43	Cycles to obtain a visible sign of crack ≥1000000 flexes Observed damage- Conformity	>1000000 flexes Conform	Pass
Size 48	Cycles to obtain a visible sign of crack ≥1000000 flexes Observed damage- Conformity	>1000000 flexes Conform	Pass
<b>6.2.1.5.1 Behavior of metallic penetration insert (EN 12568) – Corrosion (SEAM60)</b>			
Size 39	Conformity	Conform	Pass
Size 48	Conformity	Conform	Pass
<b>6.2.2.2 Antistatic footwear</b>			
Size 39			
Electrical resistance (dry)-right	0.1 ≤ - ≤1000MΩ	60.000 MΩ	Pass
Electrical resistance (dry)-left		56.000 MΩ	

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Electrical resistance (wet)-right		17.000 MΩ	
Electrical resistance (wet)-left		16.000 MΩ	
Size 43			
Electrical resistance (dry)-right		49.000 MΩ	
Electrical resistance (dry)-left	0.1 ≤ - ≤1000 MΩ	57.000 MΩ	Pass
Electrical resistance (wet)-right		15.000 MΩ	
Electrical resistance (wet)-left		17.000 MΩ	
Size 48			
Electrical resistance (dry)-right		97.000 MΩ	
Electrical resistance (dry)-left	0.1 ≤ - ≤1000 MΩ	101.000 MΩ	Pass
Electrical resistance (wet)-right		22.000 MΩ	
Electrical resistance (wet)-left		20.000 MΩ	
<b>6.2.3.1 Heat insulation of sole complex</b>			
Conformity to annex B	Conformity	Conform	Pass
Temperature increase (Size 39/43/48)	≤22°C	8.3/8.6/6.7 °C	
<b>6.2.3.2 Cold insulation of sole complex</b>			
Temperature decrease (Size 39/43/48)	≤10°C	6.4/6.2/3.9 °C	Pass
<b>6.2.4 Energy absorption of seat region</b>			
Size 39			
Energy absorbed-right foot	≥20J	45 J	Pass
Energy absorbed-left foot		45 J	
Size 43			
Energy absorbed-right foot	≥20J	46 J	Pass
Energy absorbed-left foot		42 J	
Size 48			
Energy absorbed-right foot	≥20J	46 J	Pass
Energy absorbed-left foot		47 J	
<b>6.3 Upper: Water penetration and absorption (VACRAZ – COW FULL GRAIN LEATHER 20-22)</b>			
Water penetration	≤0.2g	0.014 g	Pass
Water absorption	≤30%	2%	
<b>6.3 Upper: Water penetration and absorption (DMINN2 – MICROFIBER NUBUCK S2)</b>			
Water penetration	≤0.2g	0.029 g	Pass
Water absorption	≤30%	3%	
<b>6.3 Upper: Water penetration and absorption (FUNNOR – TEXTILE COAG FUN STRONG)</b>			
Water penetration	≤0.2g	0.008 g	Pass
Water absorption	≤30%	1%	
<b>6.3 Upper: WRU construction</b>			
Size 39	Construction conformity	Conform	Pass

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Size 43	Construction conformity	Conform	Pass
Size 48	Construction conformity	Conform	Pass
<b>6.4.2 Determination of resistance to fuel oil</b>			
Increase in volume – Size 39	≤12%	2.5%	Pass
Increase in hardness shore A – Size 39	Shore A	2	
Increase in volume – Size 43	≤12%	1.0%	
Increase in hardness shore A – Size 43	Shore A	5	
Increase in volume – Size 48	≤12%	2.4%	
Increase in hardness shore A – Size 48	Shore A	1	
<b>OTHERS:</b>			
<b>Azo dyes- seat region &amp; quarter &amp; vamp lining materials (AGLIGF – TOSNO3 – IBITHE)</b>			
Azo dyes - Textiles	<30mg/kg	<5mg/kg	Pass
<b>Azo dyes- insock lining (PRPHOM)</b>			
Azo dyes - Textile	<30mg/kg	<5mg/kg	Pass
<b>DMFu- Upper microfiber</b>			
Dimethylfumarate	<0,1 mg/kg	<0,1 mg/kg	Pass
<b>Organotin compound: XRF screening Method – Midsole &amp; Outsole</b>			
Sn detected	<350ppm	<350ppm	Pass
<b>Cadmium - XRF screening Method – Midsole &amp; Outsole</b>			
Cd detected	<100ppm	<100ppm	Pass
<b>Phthalates (4P)</b>			
BBP/DBP/DEHP/DIBP	<0.1 %	<0.0020	Pass

This document brings together all the test results obtained in the following test reports

L220304137_1	L190203695_1
L220304136_1	L200812859_2
L190509709_2	L181225203_1
L190101920_1	L220508619_1
L220304127_1	L200506835_2
L220304126_1	L190203705_1
L190202327_1	L190203707_1
L220304972_1	L190918965_1
L210712568_1	L190918801_3
L190305775_2	INTERTEK GZHT90952753
L190202323_2	PFI 1810566-01/03-00-01
L190202316_2	

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L220304971\_1

➤ Component list of the footwear

Upper	VACRAZ	Cow full grain leather 20/22 (2mm/2,2mm)
Collar	DMINN2	Microfiber
	FUNNOR	Textile COAG FUN STRONG SM
Vamp lining	IBITHE	Non woven
Quarter lining	TOSNO3	Textile
	AGLIGF	Heel grip textile
Insole	PLMANT	Textile
Insock	PRPHOM	Textile Men 39/48
Outsole	TRCCNO	PU TRAIL confort layer
	TRCUGF	PU TRAIL wear layer (outsole)
Toe Cap	BCOXXL	Composite fiberglass
Insert	SEAM60	Steel

➤ The view of whole footwear and outsole



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*This document contains all the test results obtained on the "MASTER NOIR – MTAA3" model produced by GASTON MILLE. For more details, please refer to the test reports mentioned on page 9.*

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