

**BENNETT SAFETYWEAR LTD**  
**7-11 MERSEY ROAD, CROSBY, LIVERPOOL , UK**  
**TECHNICAL DIGEST NO:1027**

The following LineGuard™ clothing ensemble is manufactured by  
**Bennett Safetywear Ltd**



Stockcode	Dev No:	Description	SIZE	Waist/Chest	
4420800080	14P/2492	Jacket with Hood	Small	86-94	156-204
4420800090	14P/2492	Jacket with Hood	Medium	94-102	156-204
4420800100	14P/2492	Jacket with Hood	Large	102-112	156-204
4420800110	14P/2492	Jacket with Hood	XL	110-118	156-204
4420800120	14P/2492	Jacket with Hood	XXL	120-128	156-204
4420800130	14P/2492	Jacket with Hood	XXXL	130-138	156-204
4421200080	17P/2595	Jacket with Hood	Small	86-94	156-204
4421200090	17P/2595	Jacket with Hood	Medium	94-102	156-204
4421200100	17P/2595	Jacket with Hood	Large	102-112	156-204
4421200110	17P/2595	Jacket with Hood	XL	110-118	156-204
4421200120	17P/2595	Jacket with Hood	XXL	120-128	156-204
4421200130	17P/2595	Jacket with Hood	XXXL	130-138	156-204
4421510080	21P/2643A	Jacket with Hood inc flap	Small	86-94	156-204
4421510090	21P/2643A	Jacket with Hood inc flap	Medium	94-102	156-204
4421510100	21P/2643A	Jacket with Hood inc flap	Large	102-112	156-204
4421510110	21P/2643A	Jacket with Hood inc flap	XL	110-118	156-204
4421510120	21P/2643A	Jacket with Hood inc flap	XXL	120-128	156-204
4421510130	21P/2643A	Jacket with Hood inc flap	XXXL	130-138	156-204
4421500021	NSS108B	Overboots	Universal		
4421530090	21P/2643C	Overboots	Universal		
4421540090	21P/2643D	Gloves	9,10		
4421300090	14P/2497	Gloves	9,10		
4421100011	NSS108A	Suit	S-XL		156-204
4420900080	14P/2493	Trousers	S	76-82	156-204
4420900090	14P/2493	Trousers	M	86-92	156-204
4420900100	14P/2493	Trousers	L	96-102	156-204
4420900110	14P/2493	Trousers	XL	106-112	156-204
4420900120	14P/2493	Trousers	XXL	116-122	156-204
4421200080	17P/2595	Trousers	Small	76-82	156-204
4421200090	17P/2595	Trousers	Medium	86-92	156-204
4421200100	17P/2595	Trousers	Large	96-102	156-204
4421200110	17P/2595	Trousers	XL	106-112	156-204
4421200120	17P/2595	Trousers	XXL	116-122	156-204
4421200130	17P/2595	Trousers	XXXL	124-132	156-204
4421520080	21P/2643B	Trousers	S	72-76	156-204
4421520090	21P/2643B	Trousers	Medium	82-86	156-204
4421520100	21P/2643B	Trousers	Large	92-102	156-204
4421520110	21P/2643B	Trousers	XL	106-112	156-204
4421520120	21P/2643B	Trousers	XXL	116-122	156-204
4421520130	21P/2643B	Trousers	XXXL	124-132	156-204

4420910080	22P/2647	Trousers	S	72-76	156-204
4420910090	22P/2647	Trousers	Medium	82-86	156-204
4420910100	22P/2647	Trousers	Large	92-102	156-204
4420910110	22P/2647	Trousers	XL	106-112	156-204
4420910120	22P/2647	Trousers	XXL	116-122	156-204
4420910130	22P/2647	Trousers	XXXL	124-132	156-204

**Performance Levels**  
**Class 1 (800 kV AC / ±600 kV DC);**

Clothing	BS EN IEC 60895:2020
Suit Limited Flame Spread	PASS
Electrical Resistance:	<50Ω
Shielding Efficiency	Min 50dB
Shielding Efficiency	462 kV RMSMax Voltage

It is recommended to check the resistance is still less than 50Ω for the suit & gloves before use

Where this product is used in combination with a conductive garment and component parts of different manufacturers to assemble a complete conductive clothing, it is the responsibility of the user to test the whole assembly for its integrity, bonding resistance and screening efficiency.

The conditions of use and cleansing of the garments may result in a loss of performance. Note damage to the suit and dirt on the suit will affect the performance of the suit.

Damaged clothing will not offer the same level of performance, and should be replaced.

Ensure the suit is free from flaws and dirt. See overleaf for the electrical checks to be carried out. Note the performance relates to the complete suit and gloves and may not be interchangeable with other equipment from other sources.

All fastenings on the suits inc gloves and overboots should be correctly closed as **Failure to do so may result in an incomplete electrical connection being made.**

Items shall be wrapped in tissue paper & polymeric packaging. Each packet shall be labelled / contain the appropriate marking with regards to the amount, type, size, manufacturer, performance levels and CE mark. Labels on the garments will contain similar information. This information will be provided in the minimum resale quantity. The garments will be marked with a double Triangle as per BS EN IEC 60895:2020.

This series satisfies the basic requirements of the PPE Directive in being innocuous / free from nuisance factors, ergonomic and breathable. Conditions of use are not simulated by the test results and as such service life cannot be specified.

Recommendations of the in-service care, maintenance and periodic testing of conductive clothing and component parts.

**Care, storage and repair**

**Care:** The integrity of the conductive clothing is essential. It is the responsibility of the worker to exercise extreme care while wearing and handling the conductive clothing. Tears, holes and other deformities should be repaired according to accepted practice as described in E.1.4.

**Storage:**Conductive clothing, and component parts should be stored in a dust proof breathable container, such as a canvas or vinyl bag or briefcase. The container should be breathable in order to allow any moisture in the conductive clothing to dry, rather than turn mouldy. The storage container should be easily identified and stored in a location safe from heat, moisture and damage from other stored items. Items should be stored away from direct sunlight at a temperature not below 5°C to maintain the optimum properties of the glove and can be used under normal climatic conditions.\*\*\*

Care should be taken in transport. Conductive clothing should not be stored when made damp by perspiration or other moisture. Items can be used upto five years after date of manufacture if stored correctly. Store in original packaging.

**Cleaning:**The manufacturer's cleaning instructions should be followed. In general, the conductive clothing may be washed by hand or in an automatic washer with a detergent and no other additives (bleach etc.) and may be dried in an automatic dryer on low heat or air-dried.

Care Instructions: Garments should be dry cleaned. Note maximum number of dry clean cycles is 10\*\*\*

**Warning:**



Conductive clothing that is heavily soiled with grease, oil or other heavy contaminants should be dry cleaned.

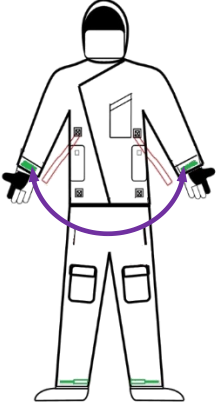
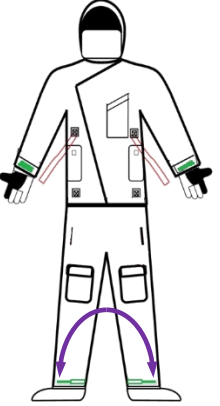
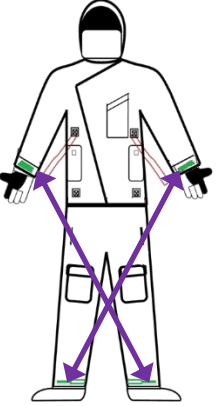
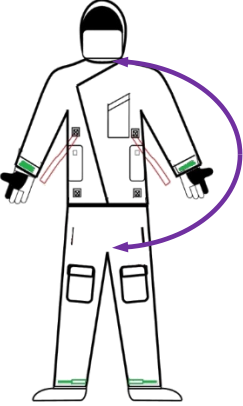
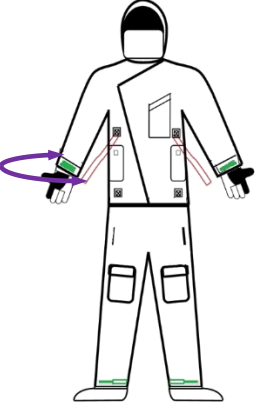
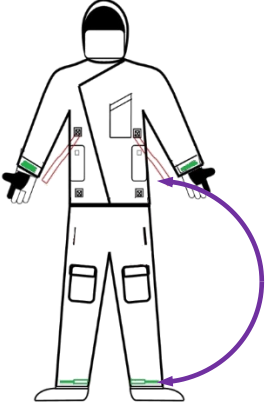
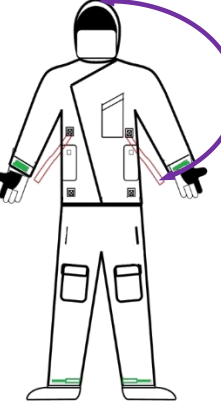
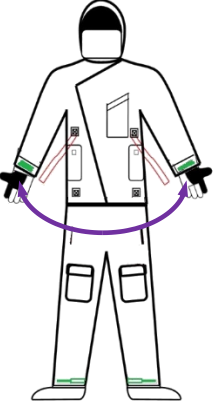
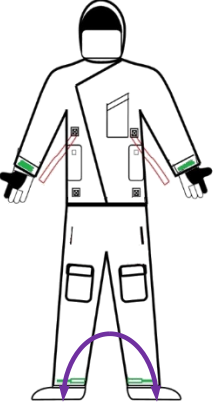
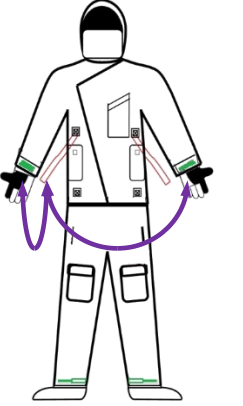
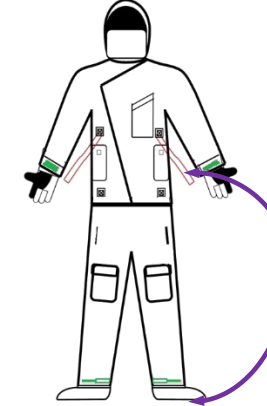
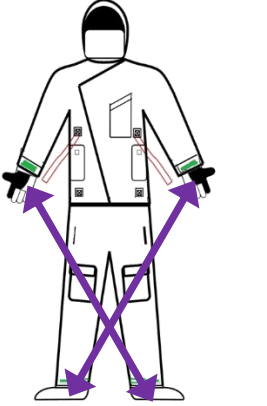
**Patching and repair**

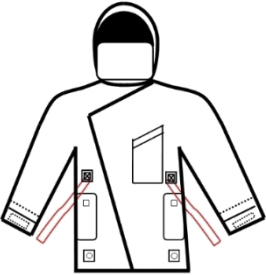
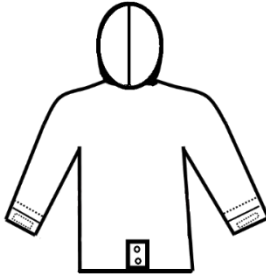
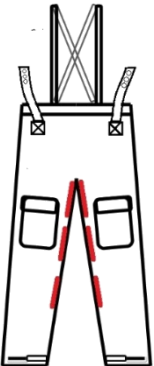
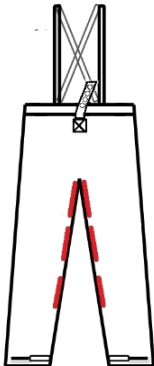
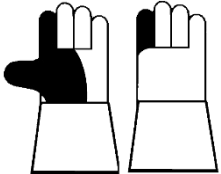
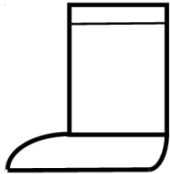
Snags and rips can be sewn with flame-retardant thread. Holes can be repaired by using a patch of the conductive clothing material and by stitching a 2.54 cm overlap with flame-retardant thread.

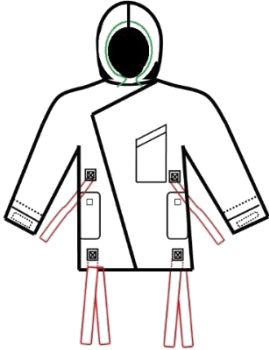
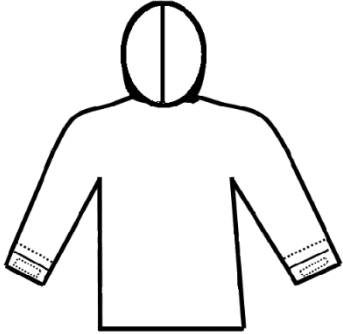
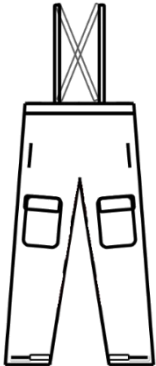
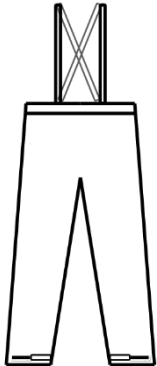
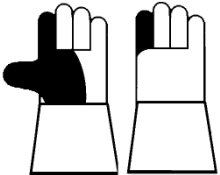
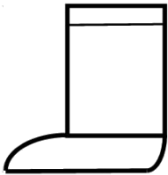
NOTE :When conductive clothing is damaged beyond repair and needs to be retired from service, it is recommended that it be returned to the manufacturer along with a complete history of its use and care, in order to provide a database for future review.

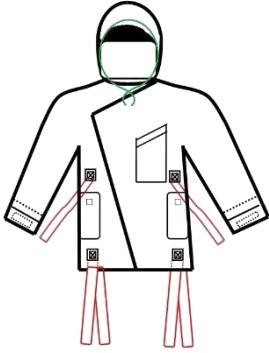
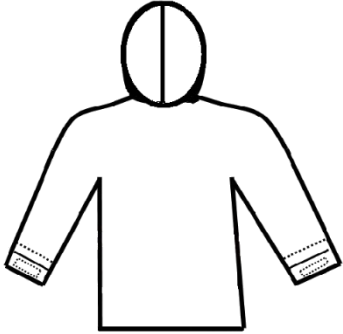
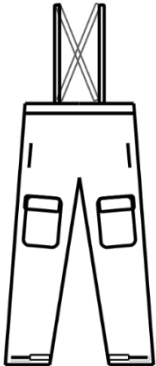
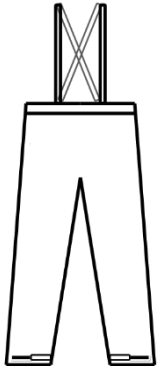
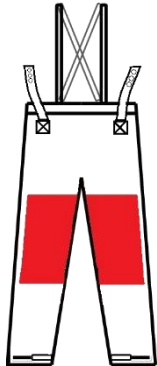
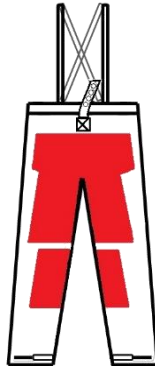
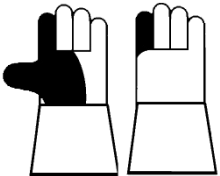
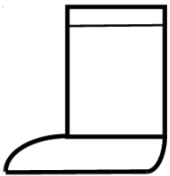
Overboots and gloves are not repairable

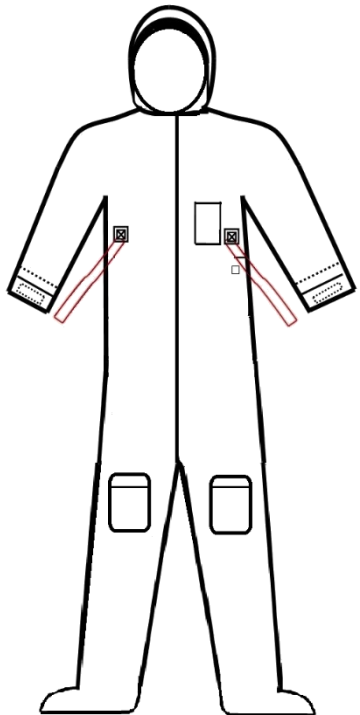
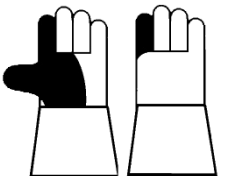
How to carry out resistance checks

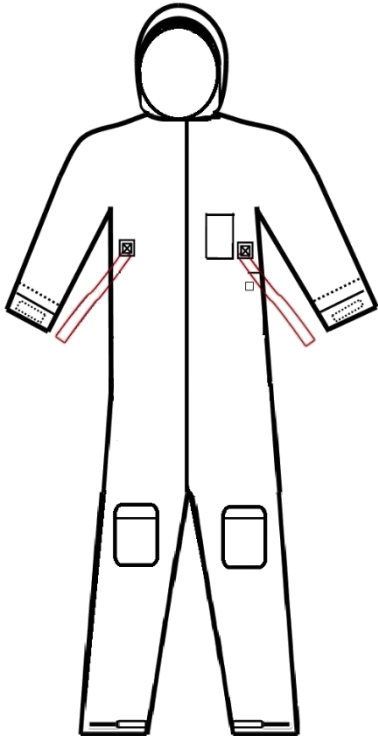
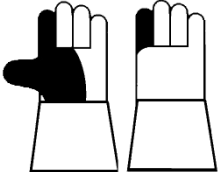
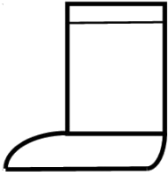
					
<p><b>Resistance between the cuff of each sleeve</b></p>	<p><b>Resistance between the ankle of each leg</b></p>	<p><b>Resistance between the sleeve cuff and ankle</b></p>	<p><b>Resistance between neck and crotch of suit</b></p>	<p><b>Resistance between end of bonding lead and cuff</b></p>	<p><b>Resistance between end of bonding lead and ankle</b></p>
					
<p><b>Resistance between end of bonding lead and hood</b></p>	<p><b>Resistance between palms of attached gloves</b></p>	<p><b>Resistance between soles of attached socks</b></p>	<p><b>Resistance between end of bonding lead and glove palm .Both leads</b></p>	<p><b>Resistance between end of bonding lead and sole of sock</b></p>	<p><b>Resistance between opposite palms and soles</b></p>

		<p>How to don 14P/2492 Jacket &amp; 14P/2493 Trousers correctly:</p> <p>Put trousers on. Put over boots on. Ensure trouser ankles are placed on top of the over boots. Securely fasten the velcro closure tightly around ankle to ensure trouser leg is flush with the over boot. Don the jacket. Ask a colleague to securely attach the press studs from bonding lead at the back of the trousers to the back of the jacket.</p>
<p>14P2492</p>		<p>Attach the bonding leads from the front of the trousers to the inside of the jacket using the press studs.</p>
		<p>Zip up the front of the jacket and close with velcro. Don the gloves. Ensure the gloves are inside the sleeve of the jacket and securely fasten the velcro closure tightly around the cuff to ensure the sleeve is flush with glove cuff inside. Pull hood over protective head gear. Close flap from hood across face</p> <p>Ensure a colleague checks the closures and fitting before proceeding.</p>
<p>14P2493</p>		<p>Use bonding leads from jacket to acquire potential from the source.</p>
		
<p>14P/2497</p>	<p>NSS108B</p>	

		<p>How to don 17P/2595 Jacket and Trousers correctly:</p> <p>Put trousers on.  Put over boots on.  Ensure trouser ankles are placed on top of the over boots.  Securely fasten the velcro closure tightly around ankle to ensure trouser leg is flush with the over boot.  Don the jacket.  Feed the bonding leads from the front of the jacket through the loop on the front of the trousers and securely tie a knot in the bonding lead  Zip up the front of the jacket and close with velcro.  Don the gloves. Ensure the gloves are inside the sleeve of the jacket and securely fasten the velcro closure tightly around the cuff to ensure the sleeve is flush with glove cuff inside.  Pull the hood up and pull the drawstring around the face</p> <p>Ensure a colleague checks the closures and fitting before proceeding.</p> <p>Use bonding leads from jacket to acquire potential from the source.</p>
<p>17P/2595</p>		
		
		
<p>14P/2497</p>	<p>NSS108B</p>	

		<p>How to don 21P2463 &amp; 22P/2647 correctly:</p> <p>Put trousers on.  Put over boots on.  Ensure trouser ankles are placed on top of the over boots.  Securely fasten the velcro closure tightly around ankle to ensure trousers leg is flush with the over boot.  Don the jacket.  Feed the bonding leads from the front of the jacket through the loop on the front of the trousers and securely tie a knot in the bonding lead  Zip up the front of the jacket and close with velcro.  Don the gloves. Ensure the gloves are inside the sleeve of the jacket and securely fasten the velcro closure tightly around the cuff to ensure the sleeve is flush with glove cuff inside.  Pull the hood up and pull the drawstring around the face  Close flap from hood across face  Ensure a colleague checks the closures and fitting before proceeding.</p> <p>Use bonding leads from jacket to acquire potential from the source.</p>	
<p>21P2463A</p>	<p>Red area shows areas of padding</p>		
			
<p>21P2463B</p>		<p>22P/2647 FRONT</p>	<p>22P/2647 BACK</p>
			
<p>21P2463D</p>	<p>21P2463C</p>		

		<p>How to don NSS78 correctly:</p> <p>Put Coverall with intergrated overboots on .          Zip up the front of the coverall and close with velcro.          Don the gloves. Ensure the gloves are inside the sleeve of the jacket and securely fasten the velcro closure tightly around the cuff to ensure the sleeve is flush with glove cuff inside.          Pull the hood up and pull the drawstring around the face          Close flap from hood across face          Ensure a colleague checks the closures and fitting before proceeding.</p> <p>Use bonding leads from coverall to acquire potential from the source.</p>
<p>NSS78</p>		
		
<p>21P2463D</p>		

		<p>How to don NSS108A correctly:</p> <p>Put Coverall on. Zip up the front of the coverall and close with velcro.</p> <p>Ensure coverall ankles are placed on top of the over boots. Securely fasten the velcro closure tightly around ankle to ensure coverall leg is flush with the over boot.</p> <p>Don the gloves. Ensure the gloves are inside the sleeve of the jacket and securely fasten the velcro closure tightly around the cuff to ensure the sleeve is flush with glove cuff inside. Pull the hood up and pull the drawstring around the face Close flap from hood across face Ensure a colleague checks the closures and fitting before proceeding.</p> <p>Use bonding leads from coverall to acquire potential from the source.</p>
<p>NSS108A</p>		
		
<p>21P2463D</p>	<p>NSS108B</p>	

## DECLARATION

Bennett Safetywear Ltd declares that the new PPE as described in the TD 1027 technical specification for LineGuard™ are in conformity with with the legislation PPE Regulation 2016/425 on PERSONAL PROTECTIVE EQUIPMENT, and as amended to apply in GB and with the national standard transposing harmonised standard No : BS EN IEC 60895:2020, and is identical to the PPE which is subject of UKCA certificate 0120\_PPE\_230805 issued by: , Approved Body Number: AB0120 who performed the type-examination and is subject to the procedure set out in the legislation PPE Regulation 2016/425 on PERSONAL PROTECTIVE EQUIPMENT, and as amended to apply in GB Module D under the supervision of the approved body SGS United Kingdom, Rossmore Business Park, Ellesmere Port, South Wirral, Cheshire, CH65 3EN,United Kingdom.Their approved body number is 0120 and is also the subject of the EU certificate. No: and identical to the PPE which is the subject of the EU certificate. No: 0598\_PPE\_23\_3767, issued by: by and is subject to the procedures under the supervision of the notified body SGS Fimko Oy, Takomotie 8, Helsinki, 00380, Finland 0598. Their notified body number is 0598., and is subject to the procedures under the supervision of the notified body SGS Fimko Oy, P.O. Box 30 (Särkiniementie 3), 00211 HELSINKI, Finland 0598. Their notified body number is 0598.  
Done at : Bennett Safetywear Ltd, 7-11 MERSEY ROAD, CROSBY, LIVERPOOL , UK

Signature:



Mr E. Baker .Quality Manager

Further copies of this information and information on other products are available from :

Bennett Safetywear Ltd

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<http://www.bennettsafetywear.co.uk>