



Information for customer: FROSTERS CRYOGENIC CLOTHING

SUIT DESCRIPTION:- The Scilabub Cryogenic suit is specifically designed to protect the wearer from Cryogenic spills and splashes, including Liquid Nitrogen and other Cryogenics. Typical applications include in laboratories when handling items stored in the vapour phase of liquid nitrogen (ranging from -120°C to -190°C) or if a Cryogenic material spillage or splash is a possibility. The suits compliment the Scilabub range of Frosters gloves and Aprons that have offered this Cryogenic protection to users for over 30 years and are manufactured incorporating the same outer material.

The outer layer, of royal blue, woven, polyamide, has a waterproof coating to resist condensed water on cold surfaces. The middle layer is of special polyolefin/polyester micro fibre, which is almost twice as effective in thermal insulation as a similar thickness of down. This minimises heat transfer without being so thick as to be cumbersome. The inner layer is of cotton for comfortable wear. Please note suit is designed to be worn over other clothing.

Stockcode	Style No	Suit Ref	Size	Chest/ Waist/cm	Height/ cm
4431010070	CRJ/87B	Suit Jacket with Collar	XS	82-86	152
4431010080	CRJ/87B	Suit Jacket with Collar	S	92-96	160
4431010090	CRJ/87B	Suit Jacket with Collar	M	102-106	168
4431010100	CRJ/87B	Suit Jacket with Collar	L	112-116	176
4431010110	CRJ/87B	Suit Jacket with Collar	XL	122-126	184
4431010120	CRJ/87B	Suit Jacket with Collar	XXL	132-136	192
4431020070	CRT/89A	Suit Trousers	XS	60-66 cm	152
4431020080	CRT/89A	Suit Trousers	S	66 - 72cm	160
4431020090	CRT/89A	Suit Trousers	M	76 - 82cm	168
4431020100	CRT/89A	Suit Trousers	L	86 - 92cm	176
4431020110	CRT/89A	Suit Trousers	XL	96 - 102cm	184
4431020120	CRT/89A	Suit Trousers	XXL	106 - 112cm	192
4499990070	CRJ/87A	Suit Jacket with Hood	XS	82-86	152
4499990080	CRJ/87A	Suit Jacket with Hood	S	92-96	160
4499990090	CRJ/87A	Suit Jacket with Hood	M	102-106	168
4499990100	CRJ/87A	Suit Jacket with Hood	L	112-116	176
4499990110	CRJ/87A	Suit Jacket with Hood	XL	122-126	184
4499990120	CRJ/87A	Suit Jacket with Hood	XXL	132-136	192

These aprons may lose their insulative properties when wet inside so always keep the inner dry when wearing the apron. Guidance on maximum permissible exposure time to cold temperatures is given in Annex B of EN 511:2006. These aprons have been specifically designed for use when handling non-flammable liquid gas and the user should not be exposed to the low temperatures for sustained periods.

Test results apply to the aprons in the as received condition and may differ if cleaned. Do not use near moving machinery due to entanglement hazard. Overall classification may not reflect the performance of only the outermost layer. These aprons are not suitable for protection against sharply pointed objects such as hypodermic needles.

MARKING:-Each packet shall be labelled / contain the appropriate marking with regards to the amount, type, size, manufacturer, performance levels and mark. Labels on the clothing will contain similar information. This information will be provided in the minimum resale quantity.

Test	Level	Standard
Abrasion Resistance	1	EN 388:2016
Cut Resistance	X	EN 388:2016
Cut Resistance (TDM)	X	EN 388:2016
Tear Resistance	3	EN 388:2016
Puncture Resistance	X	EN 388:2016
Flexibility	Pass	EN 511:2006
Water Penetration	X-	EN 511:2006
Extreme Cold Flexibility	Pass	EN 511:2006
Convective Cold	2	EN 511:2006
Contact Cold	2	EN 511:2006
Water Penetration	162-196 Kpa	EN20811:2018



(**The water penetration test does not apply to this style they should not be get wet on the inside or immersed in liquids as this may lead to a reduction in the insulative properties of the aprons.)

These aprons have been specifically designed for use when handling non-flammable liquid gas and the user should not be exposed to the low temperatures for sustained periods. Aprons should not be worn where there is a risk of entanglement with moving parts of machines. The performance may not reflect the performance of the outermost layer. Damaged aprons will not offer the same level of performance and should be replaced.

COMPLEX SAFETY CATERGORY Clothing is designed to protect the body as a two piece suit and has been tested in Aprons are designed to protect the torso in the working environment in accordance with BS EN ISO 13688: 2013 and both UK & EU regulations. EN 511 and related standards have been used as currently this no suitable standard for this product. are designed to protect the torso and lower legs in the working environment and satisfies the basic requirements of the PPE Regulation 2016/425 on personal protective equipment, and as amended to apply in GB. When selecting an apron based on risk analysis it should be understood that the protection is limited to the risk level and standards mentioned above. None of the materials or processes used in the manufacture of these products is known to be harmful to the wearer. Conditions of use are not simulated by the test results and as such service life cannot be specified.

CARE / MAINTENANCE: Cleaning and disinfection is not intended for these items .Both new and used items should be thoroughly inspected before and after use, especially after cleaning treatment, and before being worn to ensure no damage is present. Damaged clothing should not be worn and should be disposed of. Wet or contaminated clothing should not be used. Dirty clothing may not provide the same level of protection as that shown. Clothing should not be left in a contaminated condition if re-use is intended, in which case clothing should be cleaned as far as possible, provided no serious hazards exist, before removal. Excess contaminant should first be removed, e.g. loose dirt can

be brushed off with a soft brush. The clothing may be de-contaminated with mild detergent solution, then rinsed with clean water and allowed to dry naturally, ideally with some air movement.

Do not wring. Do not tumble dry. Do not use bleach. Clothing may be rinsed in water and allowed to drip dry in ambient temperatures. Reshape whilst still damp.



PACKING AND STORAGE

Can be used under normal climatic conditions. Clothing shall be wrapped in polymeric packaging. Clothing can be used up to five years after date of supply if stored correctly. Store in original packaging. Clothing should be ideally stored in a cool dry place away from direct sunlight at ambient temperatures (between 5°C and 25°C) in a dry well ventilated area in original packaging to maintain the optimum properties of the clothing. The clothing are packed in bundles, along with this leaflet. This bundle is suitable for transportation and storage.

OBSOLESCENCE Stored correctly, the clothing' physical properties will not change for up to five years.

GENERAL. The quality system used to manufacture the clothing is in compliance with ISO 9001:2015.

PLEASE NOTE

The information contained here is intended to assist the wearer in the selection of personal protective equipment. The result of the laboratory tests should help with correct clothing selection; however, it should be understood that the actual conditions of use cannot be directly simulated. It is therefore the responsibility of the end user and not the manufacturer to determine the clothing suitable for the intended use.

DECLARATION Scilabub declares that the new PPE as described in the TD «TDNEW», technical specification for the following Froster Clothing in conformity with provisions of PPE Regulation 2016/425 on personal protective equipment, and as amended to apply in GB Module D under and with the national standard transposing harmonised standard No :BS EN 388:2016,BS EN 511:2006, BSEN 21420:2020, and identical to the PPE which is the subject of the UKCA certificate LECFI00385153 issued by: ITS TESTING SERVICES, CENTRE COURT, MERIDAN BUSINESS PARK, LEICESTER, U.K., LE19 1 WD, Approved Body Number: AB0362 who performed the type-examination and is subject to the procedure set out in the PPE Regulation 2016/425 on personal protective equipment, 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: ITASLNB21022721 issued by: Intertek Italia S.p.A. Via Guido Miglioli 2/A 20063 Cernusco sul Naviglio - Milano (MI) Italy NB 2575, and is subject to the procedures under the supervision of the notified body SGS Fimko Oy, Takomotie 8, Helsinki, 00380, Finland0598. Their notified body number is 0598.

Done at : Scilabub Limited, Measham, Derbyshire, on 12/09/22

Signature:  Mr M. Gee. Managing Director

Further information is available at the below address:

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WARNINGS: