



BULL Dozer

For the Safer World...

NEW & IMPROVED!
With THREE Layers Construction!!!

"To Rescue"

Product	: Fire Fighting Suit
Model	: BDUSP2-2
Material	: Fire Retardant Pyrovatex
Color	: Yellow Navy Blue
Make	: Bulldozer, UK



Economic Fire Fighting Suit comprises of Jacket and Trousers with International Design and Features to match with the Emergency Response Requirement of Fire Fighters. The product is widely used with Industrial and commercial applications also for Rescue Purpose

29th Floor, Regus Suite, One Canada Square, Canary Wharf, London. E14 5DY
Tel: +44 (0) 207 712 1610; Fax: +44 (0) 207 712 1578
E-mail: info@bulldozersafety.com



For the Safer World...

Classification	: Fireman Gear
Sub Classification	: Basic Fire Fighter Gear
Material	: Fire Retardant Pyrovatex
Model	: BDUSP2-2
Colors Available	: Navy Blue Yellow



Specifications

1. The special fireman's clothing- pattern BDUSP 2-2 is built of three layers- the outer layer, detachable thermo isolating lining, moisture barrier with an inner liner with diamond stitch. A complete BDUSP 2-2 outfit consists of a three quarter length jacket and trousers. It is marked with silver and yellow fluorescent bands and has signs reading "FIREMAN" (in the user's language) made by thermo print method or attached with Velcro strips at the front and the back of the jacket. It also has Velcro strips for attaching distinctions and unit emblems. The jacket of special clothing covers the trousers to the length of minimum 30 cm.
2. The sleeves of the special clothing jacket are sewn in such a way that it allows the user to lift their arms comfortably at an angle of more than 90° without visibly making the jacket rolled up. They have elasticized wrists at the inside of sleeves (fabric 95% meta aramid, 5% para aramid, with an opening for a finger) fastened to the thermo isolating inset, with adjustable Velcro cuffs, enabling the user to regulate the wrist. Stand-up, soft collar of jacket is protecting the throat with Velcro fastening (sealed with an additional strip of the external material). Strong zipper with two sections, zipping off in the lower part. External fastening with metal snaps or Velcro with additional Velcro strips between the snaps. In the lower part the jacket there are two square internal pockets with Velcro fastening, designed to be waterproof. In the upper part at the right side the jacket there is a breast inset pocket for adding communication Device (zipped towards the arm). Below the pocket and the warning band there are two strips with loops and a special Velcro loop for fastening the additional equipment (signaling device, gloves etc.)
3. The outer layer of the jacket is made of 100% cotton (280 g/m²) nonflammable finish "PYROVATEX".
4. The inside layer of the jacket is a multi-stratum layer- steam- permeable fabric (membrane), and lining- and detached thermo isolating insert i.e. non-woven polyester fabric bipartitely coated with lining and quilted.
5. The internal, external layers and moisture barrier of the jacket are stitched together.
6. There is a double patch pocket in the lower part of the thermo isolating inset for personal dressing.

Specifications

7. The trousers of the special outfit has a raised waist-line, adjustable, with a multi-stratum thermo isolating layer (sewn and sealed) (membrane, knee reinforcement, lining) (as in the case of the jacket). The trousers have braces; 4cm wide, and a suspending band fastened with adjustable snap clasps. The fly is fastened with a zipper. There are square pockets at knee-height, with Velcro fastening for an additional inlet and a special protection against cuts and other damage. Broad straight legs comfortably fit over a boot's top, with side vents 30 cm long, zippered. The lower part of the legs is additionally strengthened with a layer of fabric.
8. The basic seam are made with big durability thread and strengthened with core thread. In order to make the outfit waterproof the seams of the thermo isolating inlet are taped over or sealed in a comparable way.
9. The internal elements of the jacket and the trousers (pockets, hems) are made of non-burning cotton PYROVATEX.
10. The "FIREMAN" marks or other are made by thermo transfer with Velcro strips are made out in black against at fluorescent slow- burning fabric. The back mark, screen processed or thermo print techniques, is attached to the jacket with Velcro strips along the whole perimeter above the warning bands. The "FIREMAN" mark in front of the jacket in attached with Velcro on the left breast below the warning bands.

The "FIREMAN" marks on the special clothing have the following dimensions:

Front: fabric 5 x 15 cm, letter height 2.5 cm, length of the inscription 11 cm; Back: fabric 12 x 34 cm, letter height 7.7 cm.

11. The warning bands consist in sewn-on silver and yellow slow burning fluorescent bands, 5 cm wide, in the following points of the outfit:
 - 10 cm from the bottom along the entire hem of the jacket
 - 28 cm from the cuff seam around the sleeve
 - On the front and the back of the jacket below the neck
 - 15 cm from the bottom hem around the legs
 - Warning bands (silver fluorescent, slow-burning)- have certificated of accordance with EN 471
 - The warning bands are sewn on with yellow non-flammable thread, double seam.

Specifications

12. The Velcro strips for attaching the signs of function (position) unit, and possibly the unit's heraldic arms, are sewn on to the jacket in places indicated by the user commissioning the outfit (the client has to suggest the embroidered emblem).
13. Complete informative inserts- containing all the information required:

The outfit has been designed with the following ergonomic principles:

- The construction fabric and other materials should not have any negative influence on the user
- The outfit should provide the user with both the required protection and the maximum possible comfort;
- Those parts of the special outfit which have direct contact with the user' body should be devoid of any rough surfaces, sharp edges and protruding elements, which could cause excessive irritation or injuries
- The cut of the special outfit facilities properly fitting it to the user's silhouette and takes into consideration all the required functions related to the surrounding conditions and the range of movements and positions which may be taken by the user when performing his/her activities.

The following solutions have been adopted to ensure this: adequate fastening systems and the possibility of separating the layers of the outfit (for conservation and for use in extraordinary situations); appropriate size; and fitting the outfit to the anatomy of the user.

- A. Each item of the clothing is marked directly on the product and may be additionally marked on tags attached to the product. The marks contain the following information:**

Manufacture's name

The trade mark of the product (symbol, code);

The size (according to tables), indicated with graphic symbols pursuant to EN340.

- B. The popular special clothing has information for the user in English Language containing:**

User's manual

Limitations regarding the user

Storage and conservation instructions

All information is unequivocal



Specifications

C. Length of the special outfit usage cycle- up to wear out damage.

D. Quality Control

The internal quality control system in the Manufacturing plant was approved and confirmed by an audit and agreement No 241/DC of (Scientific and Research Centre for Fire Protection) of monitoring the certificate of the standards for fireman's popular special outfit.

Supplier has signed an agreement of drawing up a quality system meeting the requirements to the certifying audit, consisting in training the personnel in the standards, in preparing the Quality Book, the Systems Procedures Book, the Instructions, methods of conducting audits and verifying the quality system documentation.

The ISO 9110 System is now being introduced in the manufacturing plant.

TECHNICAL CHARACTERISTICS			
COMPOSITION	100% Cotton		
WEAVE	3/1 Twill		
FINISH	Durable Flame Retardant		
WEIGHT	260 GSM (±5%)		
PARAMETERS	STANDARD	WARP	WEFT
TENSILE STRENGTH	EN ISO 13934-1	1100 N	650 N
TEAR STRENGTH	EN ISO 13937-2	20 N	22 N
DIMENSIONAL STABILITY	ISO 15797- Procedure B (Washing at 22°C, Tumble dry)	± 3%	± 3%
HEAT SHRINKAGE (180±5°C)	ISO 17483-2000		-5%
COLOR PERFORMANCE	ISO 105 C06		Grade 3
CARE INSTRUCTION			
NORMS		PARAMETERS	
	NFPA 2112	Protection against Flash fire <small>Note: Manikin test not performed</small>	Met
	NFPA 70e	Electric Arc Exposure- ASTM F 1959	ATPV : 9.8 cal/cm ² HAF: 73%
	EN ISO 11612	Flame spread: ISO 15025	A1
		Convective Heat: ISO 9151	A2
		Radiant Heat: ISO 8942	B1
		Molten Metal splash: ISO 9155	C1
		Contact Heat: ISO 12127	F1
	EN 14116	Protection against Heat and Flame	3/SIL/75
	EN ISO 11611	Welding Application	Class 1 - A1 & A2
	EN 61482-1-2	Electric arc Protection	Class 1