Dromex

PROMAX C 4000

PROMAX C 4000

Description

Dromex® Promax C 4000 Type 3, 4, 5 and 6 disposable coverall protects the users' arms, legs, torso and head from the hazards of light liquid sprays, chemical splashes and sprays, airborne solid particulates, radioactive contamination, antistatic dissipation and infective agents contact.

Promax C 4000 features a double zip and storm flap for secure front protection, double elasticated cuff with thumb loop, double layer cushioned knee pads for comfort and durability.

Ultrasonic Welded and taped seams provide an effective seal against liquid and dust ingress along with permeation prevention against a basic range of chemicals.

Suitable for applications in tank cleaning, petrochemical, refining applications, maintenance, chemical handling and distribution, chemical clean ups, oil spill management and contaminated land cleaning.

Compliance & Conformity

- Performs with the requirements of CE type examinations, PPE Directive, 89/686/EEC

- EN ISO 13688:2013 Protective clothing – general requirements

- EN 14605:2005 + A1:2009 Protective clothing against liquid chemicals
  – Performance requirements for clothing with liquid-tight (Type3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB (3) and PB (4))

- EN 13034:2005 + A1:2009 Protective clothing against liquid chemicals
  – Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals

- EN ISO 13982-1:2004 + A1:2010 Protective clothing for use against solid particulates – Part 1: Performance requirements for chemical protective clothing providing protection to the full body against airborne and solid particulates

- EN 1073-2:2002 Protective clothing against radioactive contamination
  - Requirements and test methods for non-ventilated protective clothing against particulate radioactive contamination

- EN 14126:2003 + AC:2004 Protective clothing – Performance requirements and test methods for protective clothing against infective agents

- EN 1149-5:2008 Protective clothing – Electrostatic properties – Part 5: Material performance and design requirements

Performance levels:

- EN 14605 - Type 3B (Protection against liquid tight and infective agents) and Type 4B (protective performance against spray and infective agents)

- EN 13034:2005 – Type 6B limited protective performance against light spray, liquid aerosol or low pressure, low volume splashes and infective agents

- EN ISO 13982:1 2 - Type 5B protection against airborne solid particulate's and infective agents

- EN 1073-2 Class 1 - Total inward leakage

- EN 14126 > Class 6 - Resistance to penetration by contaminated liquids under hydrostatic pressure,
  > Class 6 - Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids
  > Class 3 – Resistance to penetration by contaminated liquid aerosols
  > Class 3 – Resistance to penetration by contaminated solid particles

Specifications

Style: Disposable one-piece, full body, Type 3, 4, 5 and 6 coverall with elasticated double cuff thumb loop wrists, elastic legs, waist and hood, taped with a concealed zipper front covered with a storm flap. Seams are ultrasonic welded.

Material: Yellow Polypropylene and Polyethylene foil 88g/m^2(±2 g/m^2)

PERFORMANCE CHART OF PROMAX C 4000

FABRIC PHYSICAL PROPERTIES BASED IN CLASSIFICATION IN EN 14325:2004		TEST METHOD	RESULT	CLASS
Abrasion Resistance		EN 530:2010 Method 2	>2000 cycles*	Class 6
Flex Cracking Resistance		EN ISO 7854:1999, Method B	100.000	Class 6
Trapezoidal Tear Resist.	MD	EN ISO 9073-4:1999	>71.7 N	Class 4
	CD		>50.8	Class 3
Tensile Strength	MD	EN ISO 13934-1:2013	>110 N	Class 3
	CD		>69.5N	Class 2
Puncture Resistance		EN 863:1997	>28.2 N	Class 2
Seam Strength		EN ISO 13935-2:2014+ EN 14325:2005 Par 5.5	>130 N	Class 4
Antistaticity		EN 1149-1:2006 + EN 1149-5:2008	Pass	
pH Value		EN ISO 3071:2006 + ISO 13688:2013 Par	Pass	
AZO colourants		EN 14362-1:2012 + EN ISO 13688:2013	Pass	
Resistance to Ignition		EN13274-4:2003+ EN1073-2:2003	Pass, No afterflame,molten debris and hole formation	
Surface Resistance		EN1149-1:2006 + EN1149-5:2008	Inside ≤ 2.5 x 109 ohms.	N/A
Note * denotes visual endpoint				

FABRIC CHEMICAL PROPERTIES BASED IN CLASSIFICATION IN EN 14325:2004	TEST METHOD	RESULT	CLASS
Resistance to chemical penetration and repellency		**PENETRATION**	**REPELLENCY**
Sulphuric acid 30%	EN ISO 6530	Class 3	Class 3
Sodium Hydroxide 10%	EN ISO 6530	Class 3	Class 3
o-Xylene	EN ISO 6530	Class 3	Class 3
1-Butanol	EN ISO 6530	Class 3	Class 3
Resistance to chemical permeation **		**FABRIC**	**TAPED SEAM**
Sulphuric acid 96%	EN ISO 6529:2003	Class 6	Class 6
Note**: Please contact your local distributor for the full list of tested chemicals and the results			

FABRIC PERFORMANCE AGAINST INFECTIVE AGENTS IN EN 14126:2004	TEST METHOD	RESULT	CLASS
Resistance to penetration by blood / fluids	ISO 16603:2004	Pass to 20kPa	Class 6
Resistance to penetration by blood bornepathogens	ISO 16604:2004	Pass to 20kPa	Class 6
Resistance to wet bacterial penetration	ISO 22610:2006	No penetration	Class 6
Resistance to biologically contaminated aerosol	ISO 22611:2003	No penetration	Class 3
Resistance to biologically contaminated powders	ISO 22612:2005	No penetration	Class 3

WHOLE SUIT TEST PERFORMANCE	RESULT
Type 3 EN 14605:2009 Jet Test Test method: EN ISO 17491-3:2008 + UNI EN 14605:2009 Par 4.3.4	Pass
Type 4 EN 14605:2009 Spray Test Test method: EN ISO 17491-4:2008 Method:B + UNI EN 14605:2009 Par 4.3.4	Pass
Type 5 EN ISO 13982-1:2011 Particle Aerosol Inward Leakage Test Test method: EN ISO 13982-2:2004 + UNI EN ISO 13982-1:2005 Par 4.3.2 pass = $L_{ave.82/90} \leq 30\%$ and $L_{S.8/10} \leq 15\%$	Pass
Protective clothing against radioactive materials Test method: EN 1073-2:2002, including resistance to blocking	Pass

Sizes Available

SIZE	CHEST(CM)	HEIGHT(CM)
S	58-62	164-170
M	62-66	170-176
L	66-70	177-183
XL	72-76	183-190
2XL	76-80	190-196
3XL	80-86	196-202

Packaging, Storage & Obsolescence

Packed in individual polybags and sold as 25 units per carton for shipping.
Store in a cool dry place, with no UV exposure.
The expected shelf life of the coverall is 5 years provided that the suit is kept in its original packaging and stored correctly. The inert polymers used ensure a long shelf life but it is recommended that items should be replaced after 5 years as the antistatic properties may reduce with age.
The date of manufacture is indicated on the label of the garment.

Cleaning & Maintenance

Not required as the suit is disposable, for once off use.

- Do not machine dry.
- Do not wash.
- Do not iron.
- Do not dry clean.

Applications & Limitations

This product is intended to protect the head, torso, arms & legs from certain chemicals and fine particles. Ensure that a visual inspection has been conducted prior to use - including checks for holes, tears, defective zippers and material faults.
This coverall is for single use only - do not launder for re-use. Note that prolonged wearing of this suit may cause heat stress. The nature of works as well as the work environment needs to be taken into consideration prior to use of this protective clothing. Coveralls are typically used dependent upon the severity of the toxicity and the conditions, for protection against airborne particles and limited splash and spray. This Promax C 4000 coverall is for single use only.
Exposure to certain chemical, high concentrations or pressures, may require higher barrier properties of the fabric, or in the construction of the suit.
The performance requirements applicable to this chemical protective clothing garment are covered by the standards listed above, where there is a need for resistance to penetration by airborne solid particles including radioactive materials and infective agents. In addition, it is intended for use in cases of potential exposure to spray liquid aerosols or volume splashes with a complete permeation barrier.

In order to protect the whole body, it is advisable to wear protective gloves, boots and face protection together with this product.

The manufacturer cannot accept responsibility for any improper use or disposal of garments produced by them.

Electrostatic warnings

The person wearing the electrostatic dissipative clothing shall be properly earthed. The resistance between the person and the earth shall be <108 ohms e.g. by wearing adequate footwear.
When wearing suits with integral boots consideration should be given to the use of grounding cable.
Electrostatic dissipative clothing shall not be opened or removed whilst in the presence of flammable or explosive atmospheres or while handling flammable or explosive substances. Electrostatic dissipative clothing shall not be used in oxygen enriched atmospheres without the prior approval of the responsible safety engineer. The electrostatic dissipative performance of the electrostatic dissipative protective clothing can be affected by wear and tear, laundering and possible contamination. Electrostatic dissipative protective clothing shall permanently cover all noncomplying material during normal use (including bending movements).

Putting On & Taking Off Method

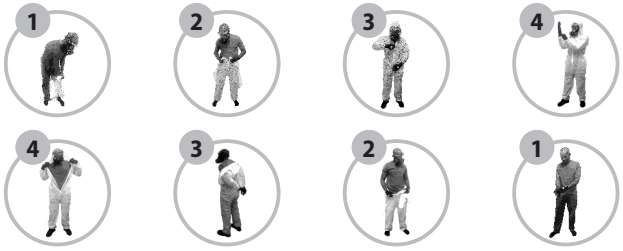
- Pre-Use check:
  Before use the user must perform a visual inspection to ensure the clothing is in good condition. Always check for holes, tears, material breaches and incomplete seams before wearing the coverall to ensure maximum protection.
  Do not use the coverall if the zipper or zipper covers are faulty or if the elastic bands are loose.
  Do not use incorrectly sized coveralls and refer to size chart to ensure the correct size fit.

- To Put On:
  Note: Remove shoes/boots and any jewellery, head gear and any items that could damage the garment before attempting to put on this coverall.

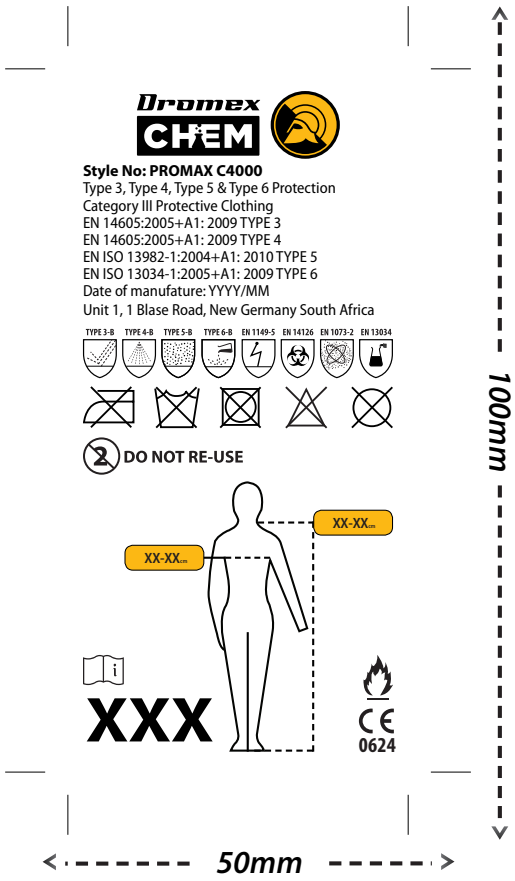
1. Unzip the coverall and slip legs into the trousers whilst seated.
2. Stand and pull the coverall over the whole body.
3. Slip arms into the sleeves and pull the elasticated hood over the head.
4. Carefully remove the adhesive tape cover from the zip cover and seal.
5. Remove the adhesive tape cover from the outer cover and secure the outer cover over the zip-cover with the adhesive strips.
6. Remove the adhesive tape cover from the neck cover and seal over the other covers.

- To Take Off the coverall:
  Note: To prevent injury, clean the suit first if it is covered in a contaminant.

1. Remove the hood, open the neck cover, followed by the outer-cover and lastly the zip-cover.
2. Unzip the coverall, remove arms from the sleeves, remove from torso, and lastly remove from legs.



Disposal

Restrictions on the disposal depend solely on the contamination during use. The user is advised to adhere to local legislation pertaining to the disposal of used coveralls and the associated contaminants.

Marking