



chemsplash®

Jet Spray 88 Coverall Type 3B/4B/5B/6B

Style Code: **2727**

The Chemsplash Jet Spray 88 Type 3B/4B/5B/6B Coverall is highly resistant against Chemical permeation. Made from a thick 88 GSM heavy weight Polypropylene / Polyethylene multilayer laminated material, it is also tested to provide protection against Biological Hazards to EN14126, protecting again Viruses, Bacteria and Blood borne pathogens and also protects against Particulate Radioactive contamination (level 2) to EN1073-2.

Features

- 88GSM Heavyweight Microporous Non Woven Fabric
- Ultrasonically Tape Welded Seams
- Self Adhesive Chin Strap for Optimum Protection
- Elasticated Hood, Half Waist, Cuffs and Ankles
- Convenient Thumb Loops at Wrist
- Single-Way Zip with Bi-Folding Self Adhesive Flap
- Silicone & Latex Free
- Non Linting Fabric
- Anti-Static

Suitable Applications

Liquid Chemical Handling
Contamination Control
Medical
Emergency Response

Maintenance work at Nuclear Facilities
Biological Protection

Colours Available

Yellow

Sizes in CMs

in compliance with EN340

Size	Height	Chest
S	160-165	89-93
M	163-168	93-98
L	167-172	101-106
XL	173-178	108-114
XXL	176-181	116-122
XXXL	185-190	124-130



Sterile Irradiated Version Available on Request

 EN14605 TYPE 3B EN1149-5:2018	 EN14605 TYPE 4B EN1073-2	 EN13982-1 TYPE 5B EN14126	 EN13034 TYPE 6B
 Anti-static	 Nuclear Particles Class 1	 Infective Agents	

Performance of whole suit			
Test	Requirement	Result /Class/Conformity	
Jet test (type 3) EN ISO 17491-3		Pass	
Spray test (type 4) EN ISO 17491-4 – met. B		Pass	
Aerosol penetration (type 5)	$IL_{50-90} \leq 30\%$, $TILS_{10} \leq 15\%$	Pass	
Seams tensile strength (EN ISO 13935-2) - 4017	Class 4 > 75 N	4	
Seams tensile strength (EN ISO 13935-2) - 4018	Class 4 > 75 N	4	
pH	6.3	Pass	

Performance of fabric			
Test	Requirement	Result /Class/Conformity	
Resistance to penetration to liquid (EN ISO 6530 – EN 13034)	Class 3: < 1% Class 2: < 5% Class 1: < 10%	H ₂ O 30%: class 3 NaOH 10%: class 3 p-xylene: class 3 Butan-1-ol: class 3	
Repellency to liquid (EN ISO 6530 – EN 13034)	Class 3: > 95% Class 2: > 90% Class 1: > 80%	H ₂ O 30%: class 3 NaOH 10%: class 3 p-xylene: class 3 Butan-1-ol: class 3	
Abrasion Resistance (EN 530 - method 2)	Class 6: > 2000 cycles	Class 6	
Trapezoidal tear resistance (EN ISO 9073-4 – EN 1073-2)	Class 3: > 20 N	Class 3	
Trapezoidal tear resistance (EN ISO 9073-4)	Class 2 > 10 N	Class 2	
Tensile strength (EN ISO 13934-1)	Class 2 > 60 N	Class 2	
Puncture resistance (EN 863)	Class 2: > 10 N	Class 2	
Flex cracking resistance (EN 7854)	Class 6: > 100 000 c.	Class 6	
Blocking resistance (EN 25978 - EN 1073-2)		Pass	
Electric surface resistance (ANSI/ESD STM 2.1:2013 – test condition EN 1149-1)	< 1,3 x10 ⁶ Ω	Pass	

EN 14126:2003			
Test	Requirement	Result /Class/Conformity	
Resistance to penetration by blood-borne pathogens - phi-x174 bacteriophage test - ISO 16603/16604	Class 6: 20 kPa	Class 6	
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids - ISO 22610 (test microorganism: staphylococcus aureus)	Class 6: t > 75	Class 6	
Resistance to penetration by contaminated liquid aerosols - ISO DIS 22611 (test microorganism: staphylococcus aureus)	Class 3: log > 5	Class 3	
Resistance to penetration by contaminated solid particles - EN ISO 22612 (test microorganism: spores of Bacillus subtilis)	Class 3: ≤ 1	Class 3	

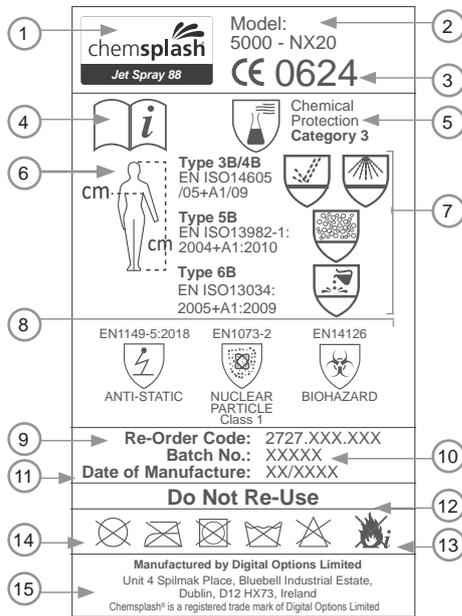
EN ISO 13688:2013			
Test	Requirement	Result /Class/Conformity	
pH (EN 340 – ISO 3071)	3.5 > pH > 9.5	Pass	

PERMEATION DATA						
Tests performed according to ISO 6529: 2013 Method A						
CHEMICAL	CAS NO	PHY STATE	Fabric	Breakthrough Time at 150µg/cm2	CLASS**	
Phosphoric Acid 85%	7664-38-2	Liquid	Fabric	>480 minutes	6	
Acetic Acid 10%	64-19-7	Liquid	Fabric	>480 minutes	6	
Ethylene Glycol	111-76-2	Liquid	Fabric	>480 minutes	6	
Sulphuric Acid 96%	7664-93-9	Liquid	Fabric	>480 minutes	6	

link to full test report

EN Classification according to EN 14325:2018

MORE CHEMICAL TESTS AVAILABLE UPON REQUEST



Garment Inside Label Markings

- Model Name – Chemsplash Jet Spray 88
- Model Identification – Model 5000-NX20
- CE Marking – overall complies with requirements for category III personal protective equipment according to European legislation. Type-test & certification was issued by Centrocot Tessile Cottoniero, 21052 Busto Arsizio (VA), P.ZZA Sant'Anna, 2, Italy
- Indicates wearer should read the instructions for use
- Indicates compliance with European Standards for chemical protective clothing
- Sizing pictogram indicates to fit body measurements in sizes & correlation to letter code. Select the size to fit your body measurements
- Full body protection "types" achieved by this coverall - defined by the European standards for chemical protective clothing:
 - EN 14605:2005 (Type 3B & 4B)
 - EN ISO 13982-1:2004+A1:2010 (Type 5B)
 - EN 13034:2005+A1:2009 (Type 6B)
- Safety Standards:
 - Antistatic Protection (EN1149-5:2018)
 - Radioactive Contamination Protection (EN 1073-2:2002)
 - Protection Against Infective Agents (EN 14126:2003+AC:2004)
- Re-Order Code
- Batch Number
- Date of manufacture
- Do not re-use
- Flammable material – keep away from fire
- International care symbols:
 - Do Not Dry Clean
 - Do Not Iron
 - Do Not Tumble Dry
 - Do Not Wash
 - Do Not Bleach
- Manufacturer's Name and Address

Sizes in cm - in compliance with EN340

Size	S	M	L	XL	2XL	3XL
Height	160-165	163-168	167-172	173-178	176-181	185-190
Chest	89-93	93-98	101-106	108-114	116-122	124-130

Limitations

Exposition to certain chemicals or high concentrations may require higher barrier properties, either in terms of the performance of material or in the construction of the suit. Such areas can be protected by garments in type 1 to type 2. The user shall be the sole judge of the suitability for the type of protection required and the corrected combinations of coveralls and additional equipment.

Warnings

- Do not use if any defects are noticed (e.g. seam defects, faulty zip)
- Select the correct garment size
- Dressing correctly with a closed zip protected by the flap
- If necessary use additional devices with same characteristics (such as gloves, breathing apparatus, boots etc.) in order to provide for full body protection
- Coverall meets Ljnn, 82/90 ≤ 30% - Ls 8/10 ≤ 15%
- Wear for long periods of time can cause heat stress
- Heat stress and discomfort can be reduced or eliminated by using appropriate undergarments or suitable ventilation equipment
- In case of airborne solid particulates it is advisable to cover the zipper and to surround the extremity of the sleeves and the leggings with adhesive ribbon
- Coverall are for single use only and must be disposed after any job
- If any breaking, punctures etc. occur, leave the working area and wear new coverall
- The person wearing the electrostatic protective clothing shall be properly earthed. The resistance between the person and the earth shall be less than 10⁶ Ω e.g. by wearing adequate footwear
- Electrostatic dissipative protective clothing shall not be open or removed whilst in presence of flammable or explosive atmospheres or while handling flammable or explosive substances
- Electrostatic dissipative protective clothing shall not be used in oxygen enriched atmospheres without prior approval of responsible safety engineer

How to wear protective clothing

Remove the coveralls from its packaging, open the central zipper and wear. Fully close the zipper. In case of airborne solid

particulates risk it is advisable to tape the zipper and protective gloves, tape the extremity of the sleeves and the leggings with adhesive ribbon, making sure that the sleeve covers the glove opening.

Storage and disposal

Garments can be stored in the original packaging in a dry place away from heat sources. Garments can be disposed of without harm to the environment. Restrictions to disposal result only from contamination during use. In this case dispose in compliance with applicable laws and regulations.

Donning and doffing

Take the coverall out of its bag and give it a good shake to loosen it out. Remove your footwear. Lower the zip on the coverall so that both stoppers are at the bottom of the zip. Pull the coverall on, legs first. Pull it up over your arms and shoulders. Do not zip it up. Do a squat or sit action to expel any air from the suit. Zip the coverall up to the desired length using the top stopper only and then lock the stopper in place by clicking it downwards into the zip. Remove the adhesive tape strip & firmly stick down the adhesive flap over the zip. Replace your footwear.

Shelf-life

Chemsplash Cat 111-Type 3, 4, 5 & 6 Coveralls and related Partial Body accessories are generally constructed from inert polymers that are not materially impacted by normal storage conditions. In unopened bags and cartons and in such conditions (-5°C to 40° C, dry and away from direct light) the expected shelf life can be approximately 10 years. Some discoloration of fabrics may occur over time, but this usually results from seepage of dyes and does not impact fabric performance.

On occasion particular properties of some fabrics may alter over time. In particular anti-static properties result from a topical treatment which will degrade over time and in use. It is crucial that all garments, regardless of age, and especially after a longer shelf life, are thoroughly checked for degradation or wear before use. Do not use any garment that appears inferior. It is always the end user's responsibility to ensure any garment is fit for purpose.

This product is suitable for use in BRC approved work areas & for the Pharmaceutical Industry

Declaration of Conformity available at: www.chemsplash.com