

Specification Sheet



ISO 14644-1:
2005
CLEANROOM
Class 5 – 9

EN ISO 13982-1:
2004+A1:2010



Type 5B

EN 13034:
2005+A1:2009



Type 6B

EN 1149-5:2018



Anti-static

EN 1073-2:2002



NUCLEAR
PARTICLE
Class 1

EN 14126:
2003+AC:2004



Infective
Agents



chemsplash®

Eka 55 Coverall

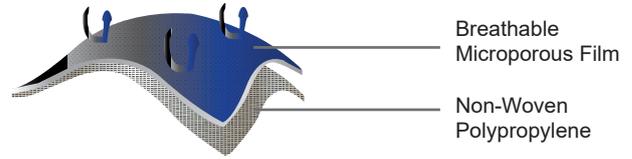
Type 5B/6B

Style Code: **2511**

The Chemsplash Eka 55 Coverall is made from 55GSM microporous laminated fabric. It offers users a better value laminated Cat III Type 5/6 coverall for those applications where the suit isn't used for prolonged periods but where a high level of protection to liquid chemical splashes is still required.

This suit has an elasticated back, hood, cuffs & ankles, and an adhesive cover flap for additional sealing.

Chemsplash Eka 55 fabric is Anti-Static to EN1149-5:2018 and non-linting, therefore ideal for use in wide ranging applications where the operating environment must not be contaminated with garment fibres.



Features

- 55GSM Microporous Laminate Fabric
- Elasticated 3 piece Hood, Back & Cuffs
- Two Way Zip & Adhesive Zip Flap
- Elasticated Ankles
- Silicone, Latex Free & PFAS Free
- Non Linting Fabric & Anti-Static

Suitable Applications

- Pharmaceutical Industries
- Agriculture
- Cleanrooms
- Medical
- General Paint Spraying
- Crime Scene Investigation
- Veterinary Services
- General Industry

Colours Available

White

Versions available:

- Blue
- Orange

Style Code: 2636

Packaging

x1 Unit	x25 Units/ Carton	x900 Units/ Euro Pallet	x1200 Units/ Standard Pallet

Sizes in CMs

in compliance with EN ISO 13688

Size	Height	Chest
S	160-165	89-93
M	163-168	93-98
L	167-172	101-106
XL	173-181	108-114
2XL	176-181	116-122
3XL	185-190	124-130
4XL	194-199	131-139
5XL	203-208	143-146
6XL	211-216	147-155

*4XL Code: 2758

*5XL Code: 2757

*6XL Code: 2756



*Sterile Irradiated
Version Code: 2765

*Available with Feet Attached
Style Code: 2626

Style Code	Size	Carton (LxWxH) cm	Carton Weight	Product Barcode	Carton Barcode	Commodity Code
2511.400.004	S	32 x 42 x 32	5.1 kgs	5391511888900	05391529611408	6210109800
2511.400.005	M	32 x 42 x 32	5.4 kgs	5391511888917	05391529611415	6210109800
2511.400.006	L	32 x 42 x 32	5.7 kgs	5391511888924	05391526549483	6210109800
2511.400.007	XL	32 x 42 x 32	6.0 kgs	5391511888931	05391526542118	6210109800
2511.400.008	2XL	32 x 42 x 32	6.3 kgs	5391511888948	05391526548868	6210109800
2511.400.009	3XL	32 x 42 x 32	6.6 kgs	5391511888955	05391529611422	6210109800

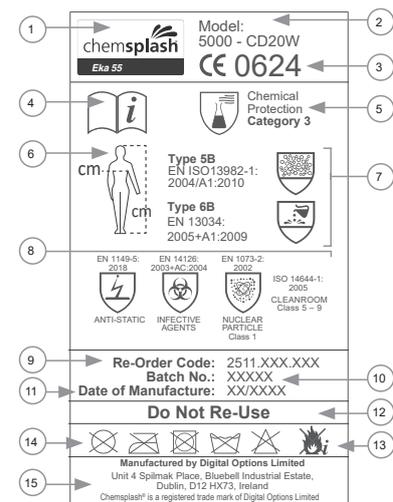




Performance of whole suit		
Test	Requirement	Result /Class/Conformity
Resistance to liquid penetration - Spray test type 6 (EN ISO 17491-4 met. A – EN 13034)		Pass
Resistance to aerosol penetration - Inward leakage type 5 (EN ISO 13982-2 – EN ISO 13982)	$IL_{2000} \leq 30\%$, $TILS_{2000} \leq 15\%$	Pass
Nominal protection factor (EN ISO 13982-2 – EN 1073-2)	$TIL_{2000} \leq 30$, $TIL_{2000} \leq 20$, $F_{pn} \leq 5$	Class 1
Seams: strength (EN ISO 13935-2)	> 75 N	Class 3
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 o-xilene: 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 o-xilene: class 3 Butan-1-ol: class 3
Abrasion Resistance (EN 530 - method 2)	Class 2 > 100 cycles	Class 2
Trapezoidal tear resistance (EN ISO 9073-4)	Class 2 > 20 N	Class 2
Tensile strength (EN ISO 13934-1)	Class 1 > 30 N	Class 1
Puncture resistance (EN 863 - EN 13034)	Class 1 > 5 N	Class 1
Flex cracking resistance (EN 7854)	Class 6 > 100 000 c.	Class 6
Electric surface resistance (ANSI/ESD STM 2.1:2013 – test condition EN 1149-1)	$\leq 2.5 \times 10^9$	Pass
EN 14126:2003		
Test	Requirement	Result /Class/Conformity
Bursting strength (13938-1)	Class 3: > 160 kPa	Class 1
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 1: ≤ 15 min	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 + A1:2021		
Test	Requirement	Result /Class/Conformity
pH (EN ISO 13688 – ISO 3071)	$3.5 > \text{pH} > 9.5$	Pass

Classification according to EN 14325

Fabric 55GSM is suitable for use in cleanrooms fulfilling the specification of air cleanliness ISO Class 5 - 9 (according to ISO 14644-1:2015).



Garment Inside Label Markings

- Model Name – Chemsplash Eka 55
- Model Identification – Model 5000-CD20W
- 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 Arsizi (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 overall defined by the European standards for chemical protective clothing:
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)
 - Cleanroom ISO Class 5 - 9 (ISO 14644-1:2015)
- 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
- Manufacturers name and Address

Limitations

Exposition to certain chemicals or high concentrations may require higher barrier properties, either in terms of the performances 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 is 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 Ljmn, 82/90 $\leq 30\%$ - Ls 8/10 $\leq 15\%$
- 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 overall
- The person wearing the electrostatic dissipative protective clothing shall be properly earthed. The resistance between the person and the earth shall be less than $10^8 \Omega$ e.g. by wearing adequate footwear on dissipative or conductive floors;
- 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, or in Zone 0 (see EN 60079-10-1 [7]) without 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;
- The electrostatic dissipative protective clothing shall be worn in such a way that it permanently covers all non-complying materials during normal use (including bending movements);
- The electrostatic dissipative protective clothing is intended to be worn in Zones 1, 2, 20, 21 and 22 (see EN 60079-10-1 [7] and EN 60079-10-2 [8]) in which the minimum ignition energy of any explosive atmosphere is not less than 0,016 mJ.

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 must be stored in their original packaging in a dark, dry and cool place. Ideally at temperatures between -5 and 40 degrees centigrade.

Garments should be disposed of without harm to the environment. Restrictions to disposal may result from contamination during use. In this case please dispose of in compliance with applicable laws and regulations.

Donning and doffing

Take the overall out of its bag and give it a good shake to loosen it out. Remove your footwear. Lower the zip on the overall so that both stoppers are at the bottom of the zip. Pull the overall 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 overall up to the desired length using the top stopper only and then lock the stopper in place by clicking it downwards into the zip. Firmly press down the adhesive tape then remove the strip, make sure the sticky part is left behind. Now press the adhesive flap over the zip and close the flap. 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, but 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.

Declaration of Conformity available at:
www.chemsplash.com

CE guarantees the free circulation of products and goods within the European Union. CE-Marked product complies with the essential requirements of the European Regulation (EU) 2016/425.