

Isofield Delta Kits

Non-sterile Cleanroom coverall with mandarin collar, hood with integrated facemask & overboots

PRODUCT INFO



MANDARIN COLLAR COVERALL
Two-layer mandarin collar provides secure fit at neck area
Zip flap with double-sided tape prevents ingress and egress of particles
Low-linting, anti-static fabric suitable for chemo handling
Elasticated thumb loops
Back elastic to prevent bellows effect



HOOD WITH INTEGRATED FACEMASK
Integrated mask with two ties for quick and easy donning
Latex-free enclosed elastic face opening for comfort fit
Extra-long yoke for added protection
Three panel hood design to minimize skin exposure



OVERBOOTS
Extra long – 50cm knee height
Two-ties for added security
Anti-slip PU sole

APPLICATIONS

Electronics manufacturing
Pharmaceutical packaging
Automotive industry
Medical device assembly
Aerospace manufacturing
Food processing (Non-sterile zones)
Laboratories

QUALITY ASSURANCE

Type 5/6 certified
Manufactured in a facility operating under ISO 9001:2015 quality management system
Processed in a NEBB certified ISO Class 5 cleanroom

STORAGE & SHELF LIFE

Store in a dry, cool place (<40°C) away from direct sunlight
Do not expose open cartons to prolonged direct fluorescent light
Five (5) years from date of manufacture

CLEANROOM COMPATIBILITY

ISO Class 4 cleanroom
ISO Class 5 cleanroom
Class 10 cleanroom
Class 100 cleanroom

PACKAGING

1 set (hood/coverall/boots) per sealed inner bag,
1 inner bag per sealed outer bag,
40 outer bags per carton liner with twist tie (XS-XXL),
35 outer bags per carton with twist tie (3XL-4XL)

 Three items are aseptically folded

PRODUCT CODE

REF
80450

XSMALL	80450XS	XLARGE	80450XL
SMALL	80450S	XXLARGE	80450XXL
MEDIUM	80450M	3XLARGE	80450XXXL
LARGE	80450L	4XLARGE	80450XXXXL



MATERIAL PERFORMANCE PARAMETERS

DESCRIPTION	UNITS	METHOD	SPECIFICATION	TYPICAL
Basic weight PP/PE film laminate	g/m ²	ISO 9073-1-1989	±2	60
Hydrostatic head	mmH ₂ O	ISO 811-1981	≥100	213
Air permeability	l/m ² /S	GB/T5453	≥	2000
Surface resistivity	Ω / sq	ASTM D257	Static dissipative	10 ¹⁰
Overboot slip resistance	Coefficient of Friction (COF)	ASTM D1894	≥0.5	0.6 (Static) 0.5 (Dynamic)

HELMKE DRUM TEST RESULT CLASS 1

PARTICLE SIZE	CUMULATIVE RELEASE RATE (COUNTS/MIN)	SPECIFICATION	CLASS	TEST METHOD
≥ 0.3µm	743*	Less than 2,000	1	IEST-RP-CC003.4
≥ 0.5µm	318*	2,000 - 20,000	1	IEST-RP-CC003.4
≥ 5.0µm	43*	20,000 - 200,000	1	IEST-RP-CC003.4

*Test carried out on coverall and hood. Typical results.

PERMEATION TEST AGAINST CHEMO DRUGS

CHEMOTHERAPY DRUGS	BREAKTHROUGH TIME	TEST METHOD
Carmustine	30 min	ASTM F739-20
Cisplatin	> 480 min	ASTM F739-20
Cyclophosphamide	> 480 min	ASTM F739-20
Doxorubicin HCl	> 480 min	ASTM F739-20
Etoposide	> 480 min	ASTM F739-20
Fluorouracil	> 480 min	ASTM F739-20
Methotrexate	> 480 min	ASTM F739-20
Paclitaxel	> 480 min	ASTM F739-20
Thiotepa	60 min	ASTM F739-20

*Results achieved under controlled laboratory conditions, by accredited ISO 17025 third party testing laboratory

**Mask not tested

TECHNICAL PROPERTIES

TEST REFERENCE		EXPLANATION	TEST RESULTS	
EN 14325:2004 EN ISO 6530:2005		Repellency to chemicals	10% Sodium hydroxide	Level 3
			30% Sulphuric acid	Level 3
			O-Xylene	Level 2
			Butan-1-ol	Level 2
			70% Isopropyl alcohol	Level 2
			70% Ethanol	Level 2
EN 14325:2004 EN ISO 6530:2005		Resistance to penetration by chemicals	10% Sodium hydroxide	Level 3
			30% Sulphuric acid	Level 3
			O-Xylene	Level 3
			Butan-1-ol	Level 3
			70% Isopropyl alcohol	Level 3
			70% Ethanol	Level 3
EN 14325:2004 EN ISO 9073-4:1997		Trapezoidal tear resistance	Machine direction	Class 2
			Cross direction	Class 2
EN 14325:2004 EN ISO 13934-1:2013		Tensile strength	Machine direction	Class 1
			Cross direction	Class 2
EN ISO 13982- 2:2004 EN ISO 13982- 1:2004 (Type 5)		Inward leakage of aerosols and fine particles into suits	Pass	
		IL _{82/90}	0.544%	
		IL _{8/10}	0.233%	
EN 14325:2004 EN ISO 12947-2:2016		Abrasion resistance	Class 2	
EN 14325:2004 EN ISO 7854:1997, Method B		Flex cracking resistance	Class 6	
EN 14325:2004 EN 863:1995		Puncture resistance	Class 1	
EN 14325:2004 [5.5]		Seam strength	Class 2	
EN 13034:2015 + A1:2009 ISO 17491-4:2008 (Type 6)		Resistance to penetration by a spray of liquid (Spray Test)	Pass	
In-house AQL 1.5		Test plan for major defect	Pass	



Hood with integrated tie-on facemask

FACEMASK MATERIALS

Outer layer	Non-woven spunbond polyester
Filtration Layer	Non-woven meltblown polyester
Inner facing layer	Non-woven polypropylene / polyethylene
Tie-tapes	Non-woven polyester

FACEMASK FILTRATION PROPERTIES

Particle Filtration Efficiency (PFE) @ 0.1 Micron	94%
Bacterial Filtration Efficiency (BFE) @ 0.3 Micron	97%
Differential Pressure (ΔP), mm H ₂ O/cm ²	6.8

LOADING

	EURO-PALLET	STANDARD PALLET
Pallet size	W80 L120cm	W100 L120cm
Gross weight	13.31 - 16.76kg	13.31 - 16.76kg
Carton size	W38 L58 H47cm	W38 L58 H47cm
Nett weight	10.51 - 13.96kg	10.51 - 13.96kg
Air freight pallet	Max height: 109cm Layers: 2 Cartons: 8	Max height: 109cm Layers: 2 Cartons: 10
Sea freight pallet	Max height: 156cm Layers: 3 Cartons: 12	Max height: 156cm Layers: 3 Cartons: 15

DOCUMENTATION



CERTIFICATE OF CONFORMANCE (COC)
CERTIFICATE OF ANALYSIS (COA)

Please [email us](#)



FACTORY RELATED CERTIFICATIONS
To request ISO9001 Certificate,
please [email us](#)



Country of origin: **China**
HS Code: 6210109000

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