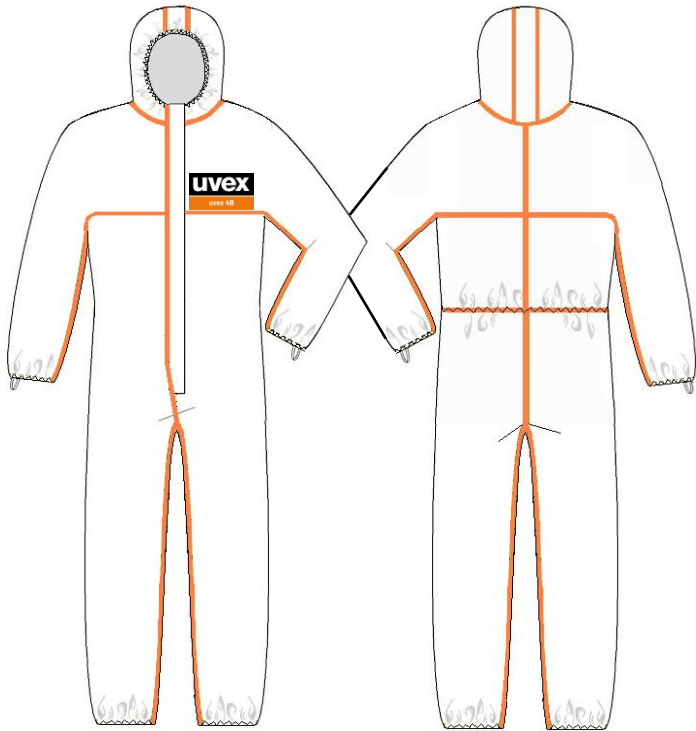


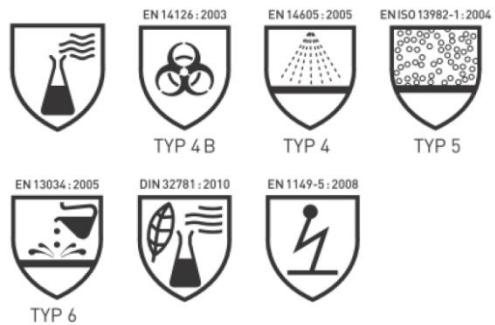
Disposable - Protective Clothing

Disposable coverall chemical protection Type 4B



Model:	9878
Colour:	white/orange
Art.-no.:	98711
Size:	S – XXXL
Retail unit:	45
Material:	spunbond -PE – laminate, microporous

PPE category III chemical protection



Product description:

- Excellent wearer comfort thanks to the breathable, light and flexible material
- Spray tight
- Resealable zipper flap and taped seams ensure optimum protection against penetration by liquid aerosols and solid particles
- Elasticated waistband for a good fit
- The hood is highly compatible with filtering face mask
- Middle finger loops prevent the sleeves from riding up e.g. work carried out above head height
- Certified for protection from pesticides in accordance with DIN 32781
- Free from silicone and substances that interfere with wetting agents
- Suitable for cleanroom environments Class 7 in accordance with ISO 14644-1
- Orange contrast colour for improved visibility

Typical applications e.g.:

- Work with low-toxic inorganic chemicals
- Low-pressure cleaning work and industrial cleaning
- Ship and automotive construction
- Work with varnishes and paints
- Agriculture and horticulture (pesticide protection)
- Pest control
- Electronics and cleanroom environments
- Work with asbestos and dismantling
- Remediation of contaminated sites
- Pharmaceutical industry and laboratories
- Sample collection
- Livestock breeding and veterinary medicine

Please note the user instruction!

Disposable - Protective Clothing

Disposable coverall chemical protection Type 4B

Performance data:

Material properties	unit	value	class
EN 14325 Fabric physical test results			
EN 530 Abrasion resistance	cycles	>100<500	2 of 6
EN ISO 7854 Flex cracking resistance	cycles	>40.000<100.000	5 of 6
EN ISO 9073-4 Tear resistance (MD)	N	>40<60	1 of 6
EN ISO 9073-4 Tear resistance (CD)	N	>10<20	
EN ISO 13934-1 Tensile strength (MD)	N	>100<250	1 of 6
EN ISO 13934-1 Tensile strength (CD)	N	>30<60	
EN 863 Puncture resistance	N	>5<10	1 of 6
EN ISO 13938-1 Burst resistance	kPa	>160<320	3 of 6
EN 13274-4 Resistance to ignition		pass	
BS EN 20811 hydrostatic head (water pressure test)	cm	232	
EN 31092/ISO 11092 Thermal resistance R _{ct}	m ² *K/W	16,3*10 ⁻³	
EN 31092/ISO 11092 Water vapour resistance R _{et}	m ² *Pa/W	<15	
EN 1149-5 Anti-static		passed	
EN 14325/EN 368 Repellence of liquids			
Sulphuric acid (30%)	%	>95	3 of 3
Sodium hydroxide (10%)	%	>95	3 of 3
n-Heptane (undiluted)	%	>90<95	2 of 3
Isopropanol	%	>95	3 of 3
EN 14325/EN 368 Resistance to penetration by liquids			
Sulphuric acid (30%)	%	>1<5	3 of 3
Sodium hydroxide (10%)	%	>1<5	3 of 3
n-Heptane (undiluted)	%	>1<5	3 of 3
Isopropanol	%	>1<5	3 of 3
EN 374-3 Resistance to permeation by liquids *			
Natriumhydroxid (10%) CAS-no. 1310-73-2	min	>10	1 of 6
* The data listed in the table above was developed under laboratory conditions. As additional influences such as higher temperature and mechanical strain often occur in practice, these results should only be used as a guideline. This data is without guarantee and does not substitute any extensive suitability tests.			
EN 14126 Barrier to infective agents			
ISO 16604/16603			
Resistance to penetration by blood/fluids under pressure and by blood borne pathogens (bacteriophagen-test)	kPa	>20	6 of 6
EN ISO 22610			
Resistance to wet bacterial penetration (mechanical contact)	min	>75	6 of 6
ISO/DIS 22611			
Resistance to penetration by biologically contaminated liquids	log R	>5	3 of 3
ISO/DIS 22612			
Resistance to penetration by biologically contaminated dust	log cfu	≤1	3 of 3

Please note the user instruction!

Disposable - Protective Clothing

Disposable coverall chemical protection Type 4B

Performance data:

EN ISO 13982-1 Aloxit Particel penetration test - fabric filtration efficiency			
Particle size 0,3µm	%	>99	
Particle size 0,4µm	%	>99	
Particle size 0,5µm	%	>99	
Particle size 0,6µm	%	>99	
Particle size 0,7µm	%	>99	
Particle size 0,8µm	%	100	
Particle size 1µm	%	100	
Particle size 2µm	%	100	
Whole suit test results			
EN ISO 13935-2 seam strength	N	>50<75	2 of 6
EN 14605/EN 468 Spray test Type 4			pass
EN ISO 13982-1-2 Particle penetration test Type 5	TIL %	<2	pass
EN 13034/EN 468 Reduced spray test Type 6			pass

DIN 32781:2007 Protection from pesticides

EN 14786 Resistance to penetration of pesticides

Brand name ZA-Nr.	Type of Preparation	Active substance	Concentration of active substance	Concentration of active substance in liquid pesticide	Preperation concentration of spray dilution	Manufacturer	Test result % Penetration
U46-D-Fluid 0941-00	SL	2,4-D-DMA-Salz	500g/l	2 400 mg/l	5 ml/l	BASF	none detected
Primor Granulat 2470-00	WG	Pirimicarb	500g/kg	750mg/l	1,5g/l	Syngenta	none detected
Amistar 5090-00	SC	Azoxystrobin	250g/l	1 250mg/l	5 ml/l	Syngenta	none detected
Betanal Expert 4991-00	EC	Phenmedipham	75g/l	560mg/l	7,5 ml/l	Bayer CropScience	none detected
Folicur 4028-0	EW	Tebuconazole	250g/l	1 250mg/l	5 ml/l	Bayer CropScience	none detected

Suitability by cleanroom class/ Linting-test ISO 9073-10

ISO 14644-1 Class	1	2	3	4	5	6	7	8	9
US Federal Standard 209	-	-	1	10	100	1.000	10.000	100.000	
uvex 4B							X	X	X

Please note the user instruction!