

uvex 3B chem classic



Modell:	9881
Article No.:	89880
Size:	S – 3XL
Material:	Polypropylene spunbound laminated with Polypropylene film
Colour:	yellow
Order Unit:	1 PC
Outer packaging	25 PC per CT

PSA-Category III



Certified according to



Areas of application:

- handling organic and inorganic chemicals
- cleaning and maintenance work
- chemical and pharmaceutical industries
- food industry
- remediation of soil contamination and dismantling
- industrial cleaning and maintenance
- oil and petrochemicals, tank cleaning
- work with paints and varnishes
- disposal of hazardous materials
- agricultural industry
- waste water treatment and drainage construction
- waste management
- disaster response and emergency services
- veterinary medicine and disease control

Product description:

- **Protective clothing against infective agents**
- highly durable, low noise material combined with ultra-sonically welded and taped seams ensure an effective barrier and maximum safety
- offers protection against a wide range of chemicals
- skin-friendly textile grip on inside
- optimal protection thanks to self-adhesive zipper flap
- elasticated waistband for a perfect fit
- secure and convenient closures thanks to elasticated bands on hood, arms and legs
- middle finger loops prevent sleeves sliding up the arm

Performance data*:

	unit	Ergebnis Bereich / result	Klasse / class
EN 14325 physical properties			
EN 530 Abrasion resistance	cycles	> 1.000	4 of 6
EN ISO 7854 Flex cracking resistance	cycles	> 5.000	3 of 6
EN ISO 9073-4 Tear resistance (MD)	N	> 40	3 of 6
EN ISO 9073-4 Tear resistance (CD)	N		
EN ISO 13934-1 Tensile strength (MD)	N	> 60	2 of 6
EN ISO 13934-1 Tensile strength (CD)	N		
EN 863 Puncture resistance	N	> 10	2 of 6
EN 14325 chemical properties			
ISO 6530 Repellence of liquids			
Sulphuric acid (30%)	%	> 95	3 of 3
Sodium hydroxide (10%)	%	> 90	2 of 3
o-Xylene	%	> 90	2 of 3
Butan-1-ol	%	> 80	1 of 3
ISO 6530 Resistance to penetration by liquids			
Sulphuric acid (30%)	%	> 1	3 of 3
Sodium hydroxide (10%)	%	> 1	3 of 3
o-Xylene	%	> 1	3 of 3
Butan-1-ol	%	> 1	3 of 3
ISO 6529 Resistance to permeation by liquids			
Sulphuric acid (96%)	min.	> 480	6 of 6
Sodium hydroxide (40%)	min.	> 480	6 of 6
Methanol	min.	> 480	6 of 6
Electrostatic properties			
EN 1149-5: Electrostatic properties	Ω	passed	-
Whole suit test results			
EN ISO 13935-2 seam strength	N	> 125	4 of 6
Type-tests			
EN 14605 / ISO 17491-3 Jettest (Type 3)		passed	-
EN 14605 / EN 17491-4 Sprühtest (Type 4)		passed	-
EN ISO 13982-1 / EN ISO 13982-2 Particle penetration test (Type 5)* ²	TIL %	passed	-
Radioactive Particles			
EN 1073-2 Barrier to radioactive particulates		passed	1 of 3
EN 25978 Resistance zu blocking - coated materials		kein Blocken / no blocking	-
EN 14126 Barrier to infective agents			
ISO 16603: Determination of the resistance of protective clothing materials to penetration by blood and body fluids — Test method using synthetic blood	kPa		6 of 6
ISO 16604: Determination of resistance of protective clothing materials to penetration by blood-borne pathogens — Test method using Phi-X174 bacteriophage	kPa		6 of 6
EN ISO 22610: Resistance to wet bacterial penetration (mechanical contact)	min		6 of 6
ISO/DIS 22611: Resistance to penetration by biologically contaminated liquids	log R		3 of 3
ISO/DIS 22612: Resistance to penetration by biologically contaminated dust	log cfu		3 of 3

* Tested under laboratory conditions: temperature (20 ± 2)°C and (65 ± 5)% relative humidity

² Particle size according to details on testing substance as mentioned in EN136, 8.16.3.2.2: "particle size description must be 0,02µm - 2µm EAD with a MMD of 0,6µm"

Performance data – Permeation*3:

EN ISO 6529/EN 374-3 Resistance to permeation by liquids*3	CAS-No.	value [min.]	class
Acetic Acid (Glacial)	64-19-7	>480	6
Acetic Anhydride	108-24-7	>480	6
Acetone	67-64-1	28	1
Acetonitrile	75-05-8	<6	0
Acrylamide	79-06-1	>480	6
Acrylic Acid	79-10-7	>480	6
Allyl Alcohol	107-18-6	>480	6
Ammonium Hydroxide (25%)	1336-21-6	>480	6
Ammonium Hydrogen Fluoride	1341-49-7	>480	6
Aniline	62-53-3	>480	6
Benlate®	17804-35-2	>480	6
Benzene	71-43-2	2	0
Benzene Sulphonyl Chloride	98-9-9	>480	6
Benzyl Chloride	100-44-7	16	1
Bromine	7726-95-6	2	0
Butanol, n	71-36-3	>480	6
Butyl Acrylate, n	141-32-2	16	1
Carbon Disulphide	75-15-0	0	0
Chlorine (Gas, 1 atmos.)	7782-50-5	10	1
Chlorine Water (satd.)	7782-50-5	2	0
Chloroacetic Acid (79% w/w)	79-11-8	>480	6
Chloroacetyl Chloride	79-04-9	36	2
Chloroethanol, 2	107-7-3	>480	6
Chloroform	67-66-3	0	0
Chloropropionic Acid, 3	107-94-8	>480	6
Chromium Trioxide (50% w/w)	1333-82-0	>480	6
Cresols, mixed	1319-77-3	>480	6
Dichloroethane, 1,2	107-6-2	4	0
Dichloroethylene, trans	156-60-5	2	0
Dichloromethane (Methylene Chloride)	75-9-2	0	0
Diesel	68334-30-5	15	1
Diethyl Ether	60-29-7	0	0
Diethylamine	109-89-7	0	0
Diffuoroaniline, 2,4	367-25-9	>480	6
Dimethyl Fumarate	624-49-7	>480	6
Dimethyl Sulphate (DMA)	77-78-1	>480	6
Dimethylamine (40% w/w)	124-40-3	>480	6
Dimethylaminopyridine, 2	5683-33-0	57	2
Dimethylformamide, N,N	68-12-2	>480	6
Epichlorohydrin	106-89-8	>480	6
Ethanethiol	75-08-1	1	0
Ethanolamine	141-43-5	>480	6
Ethyl Acetate	141-78-6	3	0
Ethylene Glycol	107-21-1	>480	6
Ethylhexanoic Acid, 2	149-57-5	>480	6
Ferric Chloride (45% w/w)	7705-8-0	>480	6
Formaldehyde (37%)	50-0-0	>480	6
Formic Acid (90%)	64-18-6	>480	6
Formic Acid (98% w/w)	64-18-6	>480	6

*3 The data listed in the table above was developed under laboratory conditions (temperature of room, permeation cells, challenge chemical and the liquid collecting medium (23 ± 1) °C). 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.

Performance data – Permeation*3:

EN ISO 6529/EN 374-3 Resistance to permeation by liquids*3	CAS-No.	value [min.]	class
Furfural	98-01-1	>480	6
Gardoclean S 5174 (Analysis of potassium hydroxide component)	1310-58-3	>480	6
Heptane, n	142-82-5	0	0
Hexamethylene Diamine, 1,6	124-09-4	>480	6
Hexamethylene Diisocyanate	822-06-0	>480	6
Hexane, n	110-54-3	0	0
Hydrazine Monohydrate (98%, containing hydrazine, 64-65% w/w)	7803-57-8	>480	6
Hydrochloric acid (37%) BT _{1,0}	7647-01-0	>480	6 of 6
Hydrobromic Acid (48% w/w)	10035-10-6	>480	6
Hydrofluoric Acid (49% w/w)	7664-39-3	>480	6
Hydrofluoric Acid (62-64% in urea)	7664-39-3	41	2
Hydrofluoric Acid (71-75% w/w)	7664-39-3	273	5
Hydrogen Cyanide (HCN)	74-90-8	<3	0
Hydrogen Peroxide (35% w/w)	7722-84-1	>480	6
Hydrogen Peroxide (50% w/w)	7722-84-1	>480	6
Iodine	7553-56-2	>480	6
Isopropyl Alcohol	67-63-0	>480	6
Mercury	7439-97-6	>480	6
Methanol	67-56-1	>480	6
Methoxyacetic Acid, 2	625-45-6	>480	6
Methyl Iodide	74-88-4	>480	6
Methyl	872-50-4	>480	6
Nitrobenzene	98-95-3	>480	6
Nitric Acid (70%)	7697-37-2	>480	6 of 6
Octave®	75747-77-2	>480	6
Oleum (20% w/w Sulphur Trioxide)	8014-95-7	60	3
Oleum (30% w/w Sulphur Trioxide)	8014-95-7	21	1
Oxalic Acid (10%)	144-62-7	>480	6
Oxsilan 9810 (Analysis of ethanol component)	64-17-5	>480	6
Oxsilan Additive 9905 (Mixture)	N/A	>480	6
Paraffin	92062-35-6	25	1
Perchloric Acid (30% w/w)	7601-90-3	>480	6
Petrol (Unleaded)	8006-61-9	2	0
Phenol (Liquid, 45 °C / 113 °F)	108-95-2	4	0
Phenol (liquified, approx. 90% w/w with water)	108-95-2	>480	6
(in Phenol/Benzyl Alcohol 25/5)	108-95-2	>480	6
Phosphoric Acid (≥85% w/w)	7664-38-2	>480	6
Phosphorus Oxychloride	10025-87-3	9	0
Phosphorus Pentachloride	10026-13-8	>480	6
Phthalic Anhydride (Liquid, 135 °C / 275 °F)	85-44-9	>480	6
Piranha solution (sulphuric acid 96% w/w:hydrogen peroxide 30% w/w)	7722-86-3	>480	6
Pivalic Acid	75-98-9	>480	6
Polyethylene Glycol 200	25322-68-3	>480	6
Potassium Hydroxide (30%)	1310-58-3	>480	6
Potassium Hydroxide (80-86% w/v)	1310-58-3	>480	6
Propionaldehyde	123-38-6	2	0
Pyridine	110-86-1	17	1
Reglone®	85-0-7	>480	6

*3 The data listed in the table above was developed under laboratory conditions (temperature of room, permeation cells, challenge chemical and the liquid collecting medium (23 ± 1) °C). 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.

Performance data – Permeation*3:

EN ISO 6529/EN 374-3 Resistance to permeation by liquids*3	CAS-No.	value [min.]	class
Ripcord®	52315-7-8	>480	6
Roundup®	38641-94-0	>480	6
Sodium Bisulphate (40%)	7681-38-1	>480	6
Sodium Chloride	7647-14-5	>480	6
Sodium Cyanide (satd.)	143-33-9	>480	6
Sodium Fluoride (satd.)	7681-49-4	>480	6
Sodium Hydroxide (40% w/w)	1310-73-2	>480	6
Sodium Hydroxide (50% w/w, 80 °C / 176 °F)	1310-73-2	>480	6
Sodium Hydroxide (50% w/w)	1310-73-2	>480	6
Sodium Hypochlorite Solution (14.5% available chlorine)	7681-52-9	>480	6
Sodium Hypochlorite Solution (5% available chlorine)	7681-52-9	>480	6
Sodium Methylate (30%)	124-41-4	>480	6
Sodium Silicofluoride (satd.)	16893-85-9	>480	6
Styrene	100-42-5	0	0
Sulphuric Acid (≥98% w/w)	7664-93-9	>480	6
Sulphuric Acid (50% w/w, 80 °C / 176 °F)	7664-93-9	>480	6
Sulphuric Acid (95-96% w/w)	7664-93-9	>480	6
SUVA HCFC 123 (1,1-Dichloro-2,2,2-trifluoroethane)	306-83-2	251	5
t-Butyl Methyl Ether	1634-4-4	1	0
Tetrahydrofuran	109-99-9	0	0
Tetramethylammonium Hydroxide (20% w/w)	75-59-2	>480	6
Thionyl Chloride	7719-9-7	0	0
Thiourea Dioxide (satd.)	1758-73-2	>480	6
Titanium Tetrachloride	7550-45-0	7	0
Toluene	108-88-3	0	0
Toluene-2,4-diisocyanate	584-84-9	>480	6
Toluidine, o-	95-53-4	>480	6
Trichloroacetic Acid (59 °C / 138 °F)	76-3-9	>480	6
Trichloroethylene	79-1-6	2	0
Triethylamine	121-44-8	0	0
Trifluoroacetic Acid	76-5-1	>480	6
Vinyl Acrylate	2177-18-6	3	0
Xylene, m	108-38-3	2	0

*3 The data listed in the table above was developed under laboratory conditions (temperature of room, permeation cells, challenge chemical and the liquid collecting medium (23 ± 1) °C). 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..