

Image:



Performance – Levels and Classes

Test	Result	Class
Resistance to penetration to liquid (EN ISO 6530)		
Sulphuric acid H ₂ SO ₄ (30 %)	0.0 %	3 / 3
Sodium hydroxide (10 %)	0.0 %	3 / 3
O-xylene	0.0 %	3 / 3
Butan-1-ol	0.0 %	3 / 3
Repellency to liquid (EN ISO 6530)		
Sulphuric acid H ₂ SO ₄ (30 %)	96.6 %	3 / 3
Sodium hydroxide (10 %)	96.2 %	3 / 3
O-xylene	97.2 %	3 / 3
Butan-1-ol	97.8 %	3 / 3
Permeation resistance (EN ISO 6530)		
Sulphuric acid (30 %)	> 480 min	6 / 6
Sulphuric acid (50 %)	> 480 min	6 / 6
Sulphuric acid (96 %)	> 480 min	6 / 6
Phosphoric acid (85 %)	> 480 min	6 / 6
Nitric acid (70 %)	> 480 min	6 / 6
Hydrochloric acid (37 %)	197 min	4 / 6
Sodium hydroxide (50 %)	> 480 min	6 / 6
Ethylene glycol	> 480 min	6 / 6
Butan-1-ol	>10 min >30 min	1 / 1

Technical Documentation

Art. ProSafe XP3000

Firm:	DS SafetyWear Arbeitsschutzprodukte GmbH Im Rohnweiher 14, 53797 Lohmar
Description:	ProSafe XP3000 One-piece coverall made of non woven 83 g/m2 yellow colour, with hood, taped seams, zip front opening covered by a double flap, elastic at cuffs, ankles, hood and waist.
Variations:	
Category: (according to 89/686/EEC)	III
Performance level:	Protective clothing against chemical TYPE 3 / TYPE 3B TYPE 4 / TYPE 4B TYPE 5 / TYPE 5B TYPE 6 / TYPE 6B
EN-Standards:	EN 340:2003 EN 14605:2005 + A1:2009 EN ISO 13982-1:2010 EN 1149-5:2008 EN 1073-2:2002 EN 14126:2003
EC Type Examination Certificate	N° 67214152
Notified Body 0 6 2 4	Centro Tessile Cotoniero e Abbigliamento S.p.A. – Centrocot, P.zza Sant'Anna 2, I – 21052 Busto Arsizio

Performance of material		
Abrasion Resistance (EN 530 methode)	> 2.000 cycles	6 / 6
Trapezoidal tear resistance (EN ISO 9073-4)	26.4 N weft 47.2 N warp	2 / 6 3 / 6
Tensile strength (EN ISO 13934-1)	62 N weft 110 N warp	2 / 6 3 / 6
Puncture resistance (EN 863)	14.2 N	2 / 6
Flex cracking resistance (EN 7854)	> 100.000 cycles	6 / 6
Resistance to ignition (EN 13274-4)	Post-combustion: No Post-incandescence: No Droplets: No Holes: No	Pass
Electrostatic properties (EN 1149-5)	1.6×10^8	Pass Inner side
Blocking resistance (EN 25978)	No blocking	2 / 2
Bursting resistance (EN ISO 13938-1)	324 kPa	4 / 6
pH (EN340 – ISO 3071)	6.6 Yellow colour	PASS
Release carcinogenic amines – azo dyes (EN 340 – EN 14362-1)	No detectable Yellow colour	PASS
Colour fastness to perspiration – acid and alkaline (EN 340 – EN 105-E04)	5 Yellow colour	PASS
Performance of whole suit – Type 3-4-5-6		
Resistance to liquid penetration (Jet test / Type 3) (EN ISO 17491-3)	No penetration	Pass
Resistance to liquid penetration (Spray Test/Type 4) (EN ISO 17491-4 method B)	No penetration	Pass
Resistance to aerosol penetration Inward leakage Type 5) (EN ISO 13982-2 / EN ISO 13982-1) IL _{82/90} ≤ 30% TILS _{8/10} ≤ 15%	All values fulfil the requirements	
Total Inward leakage (EN ISO 13935-2 / EN 1073-2) – Nominal Protection Factor	NPF: 74.62 TIL _A : 1.08 TIL _E : < 3	2 / 3
Seams strength (EN ISO 13935-2)	110 N	3 / 6
Permeation resistance on seams (EN ISO 6530) - Sulphuric acid (50 %)	> 480 min	6 / 6
Permeation resistance on seams (EN ISO 6530) - Sulphuric acid (96 %)	> 480 min	6 / 6
Size (EN340)	EN 340 clause 6	PASS
Ergonomic requirements	EN 340 clause 4	PASS
Design requirements (EN 13034)	EN 13034 clause 4.2	PASS

Practical performance test	EN 1073-2 clause 5.2	PASS
Performance of material – biological tests (EN14126:2003)		
Resistance to penetration by contaminated liquids under pressure <ul style="list-style-type: none"> • Virus Phi-X174 Test (ISO 16604) 	kPa 20	6 / 6
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids (ISO 22610)	Breakthrough t > 75 min.	6 / 6
Resistance to penetration by contaminated liquid aerosols (ISO 22611)	Penetration Ratio: log > 5	3 / 3
Resistance to penetration by contaminated solid particles (ISO 22612)	Penetration (log cfu): ≤ 1	3 / 3

