

Technical Data Sheet



Summary	
Product	Ultra Chem Coolsuit
Description	Ultra Chem breathable back garment combining the protection of Ultra Chem NS with the comfort of GP white coverall with blue breathable back panel and tough bound seams in blue. The best combination of protection and comfort.
Fabric & weight	65 gsm Microporous film laminate with a 55 gsm SMMS polypropylene back panel.
Style *(see overleaf)	UCCS
Seam Type	Stitched and bound with blue CPE fabric
Colour	White with blue breathable panel at the rear and blue seams.

CE Certification		
EN Standard*	Description	Result
EN 340: 2002	Protective Clothing : general Requirements	Pass
EN 13034: 2005	Type 6: Protection against light spray of liquids	Pass
EN 13982: 2004	Type 5: protection against hazardous dry particles	Pass
EN 14605: 2004	Type 3 & 4: Protection against splashes and sprays of liquid chemicals	NT
EN 1073:2002	Protection against dust particles that may be contaminated with radiations	Pass
EN14126: 2003	Protection against infectious agents	Pass (NS ONLY)
EN 1149-5: 2003	Anti-static garment requirements: (ATEX regulations exclude certification for PPE: However, both ATEX and BGR 132 / TBRS2153 reference certification to EN 1149 as a suitable measure for protective clothing for explosive atmospheres.)	1.3 x 10 ⁹
Back Panel	See Ultra Chem GP Technical Data Sheet	
*All Ultra Chem garments are certified to the latest version of standards where possible		

Mechanical Properties			
EN Standard	Description	Result	EN Class
EN 13934	Tensile Strength	79.87/34 N	Class 2/1
EN 530	Abrasion Resistance	<100 Cycles	Class 1
EN 863	Puncture Resistance	6.2 N	Class 1
ISO 2960	Burst Strength	50.9 kPa	Class 1
ISO 7854	Flex Cracking	<40000 Cycles	Class 4
ISO 9073	Trapezoidal tear md/cd	28.1/19.4 N	Class 2/1
ISO 9073	Trapezoidal tear-mean	23.75 N	Class 2
ISO 5082	Seam Strength	88.8 N	Class 3

Chemical Repellency – EN 368 (for Type 6)		
Chemical	EN Class	
	Repellency	Penetration
Sulphuric Acid 30%	Class 3	Class 3
Sodium Hydroxide 10%	Class 3	Class 3
O-Xylene	-	-
Butan-1-ol	-	-

Chemical Permeation – EN 6529 – For Types 1 to 4		
The chemical list below is from EN 6529 Annex A2 and is intended to provide a broad spectrum of chemical types if general chemical suit assessment		
Chemical	CAS No	Result / EN Class
Acetone	67-64-1	-
Acetonitrile	75-05-8	-
Carbon Disulphide	75-15-8	-
Dichloromethane	75-09-2	-
Diethylamine	109-89-7	-
Ethyl Acetate	141-78-6	-
n-Hexane	110-54-3	-
Methanol	67-56-01	-
Sodium Hydroxide	1310-73-2	-
Sulphuric Acid (96%)	7664-93-9	-
Tetrahydrofuran	109-99-9	-
Toluene	108-88-3	-
Breakthrough times are a reflection controlled lab tests measuring "Normalised Breakthrough" as the time to reach a permeation rate of 1.0µg/min/cm ² . This does not imply "no breakthrough" and is not intended to indicate any duration of "safe-use" in any specific application. It is always the users' final responsibility to ensure a garment is suitable for the application.		

Key Features
? Optimum combination of superior Micromax NS fabric for protection and Safeguard for high comfort
? Protection and comfort the best of both worlds
? Coverall with 3 piece hood, inset sleeves, 2 piece diamond crotch gusset, elasticated hood, waist, cuffs and ankles
? NB: The breathable panel has a lower protection factor than the rest of the garment, so Cool Suit may not be suitable in all applications
Suggested Applications
? Warm environments where Type 5 & 6 protection is required
? Paint spray applications
? Low level insecticide spraying
? Wet applications in GRP manufacturing
? Boat Building
? Wind-blade manufacture
? Pharmaceutical manufacture
? General maintenance and cleaning applications
? Scene of the crime operations
? Low hazard emergency response applications

No Information provided is intended to guarantee product suitability for any specific application:
It is always the users final responsibility to ensure garment suitability