

MICROGARD® 2000 Technical Data

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MICROGARD® 2000 is extensively tested in accordance with statutory requirements, including physical performance attributes and barrier to hazardous substances. The following tables outline the results obtained in independent laboratories according to European test methods.

Test Method	Result	EN Class (EN14325)
EN 530 Abrasion	>100	2 of 6
EN ISO 7854 Flex Cracking	>40,000	5 of 6
EN ISO 9073-4 Tear Resistance (MD)	>40N	1 of 6
EN ISO 9073-4 Tear Resistance (CD)	>10N	
EN ISO 13934-1 Tensile Strength (MD)	>60N	1 of 6
EN ISO 13934-1 Tensile Strength (CD)	>30N	
EN 863 Puncture Resistance	>5N	1 of 6
EN ISO 13938-1 Burst Resistance	>160Pa	3 of 6
EN 1149-5 Electrostatic Properties (Surface resistivity)	<2.5 x 10 ⁹	-
ISO 13935-2 Seam Strength	>75N	3 of 6
BS EN 20811 Hydrostatic Head (water pressure test)	>200cm	-
EN 31092/ISO 11092 Thermal Resistance (Rct in m ² .K/W)	<15 m ² .Pa/W	-
EN 31092/ISO 11092 Water Vapour Resistance (Ret in m ² .Pa/W)	<20.10 ⁻³ m ² .K/W	3 of 3 (DIN 32781)

EN ISO 6529: 2001 Chemical Permeation Barrier*			
Chemical	CAS Number	EN Class	EN Class (EN 14325: 2004)
Glycerol	56-81-5	>480	6 of 6
Doxorubicin HCl	25316-40-9	>480	6 of 6

*For an up to date list of chemicals tested please visit www.microgard.com or email the Microgard Technical Team at technical@microgard.com.

The following table sets out MICROGARD® 2000 performance for resistance to chemical penetration in accordance with EN ISO 6530.

Fabric Repellence & Penetration - Resistance to Liquid Chemicals	White & Green Result (%)	EN Class	Yellow Result (%)	EN Class
Repellence of Liquids - 30% Sulphuric Acid	>95	3 of 3	>90	2 of 3
Repellence of Liquids - 10% Sodium Hydroxide	>95	3 of 3	>95	3 of 3
Repellence of Liquids - o-Xylene	>95	3 of 3	>80	1 of 3
Repellence of Liquids - Butan-1-ol	>90	2 of 3	>95	3 of 3
Resistance to penetration by liquids - 30% Sulphuric Acid	0.0	3 of 3	0.0	3 of 3
Resistance to penetration by liquids - 10% Sodium Hydroxide	0.0	3 of 3	0.0	3 of 3
Resistance to penetration by liquids - o-Xylene	0.0	3 of 3	0.0	3 of 3
Resistance to penetration by liquids - Butan-1-ol	0.0	3 of 3	0.0	3 of 3

MICROGARD® 2000 when tested in accordance with EN 14126: 2003 demonstrates an excellent barrier to infective agents.

EN14126: 2003 - Barrier to Infective Agents	Result	EN Class
ISO 16603 Resistance to penetration by blood/fluids under pressure	Pass to 20kPa	Class 6 of 6
ISO 16604 Resistance to penetration by blood borne pathogens	Pass to 20kPa	Class 6 of 6
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact)	No penetration (up to 75 mins)	Class 6 of 6
ISO/DIS 22611 Resistance to biologically contaminated aerosols	No penetration	Class 3 of 3
ISO 22612 Resistance to dry microbial penetration	No penetration	Class 3 of 3

MICROGARD® 2000 products have been extensively tested according to European and International requirements, including ASTM, for both physical and barrier performance. More details can be found on our website www.microgard.com

MICROGARD® 2000 STANDARD

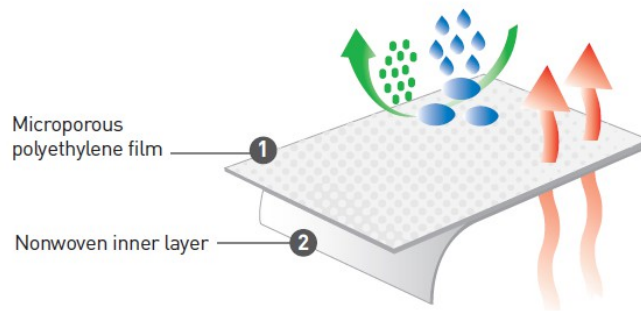
MICROGARD®
2000
STANDARD



MICROGARD® 2000 STANDARD provides both protection and comfort with exceptional liquid and particulate protection. Ideal for a wide range of industrial applications.

MICROGARD® 2000 is designed to allow water vapour (perspiration) to escape from the suit yet will withstand saturation of liquid chemicals and filter 100% of particulates down to 0.01 microns in size*

The use of a high quality two-way stretch microporous film provides an effective liquid and particle barrier combined with a high water vapour transmission rate from inside to outside.



Protection Levels & Additional Properties



Applications

- Pharmaceutical industries
- Agriculture
- Cleanrooms
- Paint spraying
- Crime scene investigation
- Veterinary services

Bound Seams

Superior strength, liquid and particle barrier



Features & Benefits

Protection - Excellent liquid penetration resistance and barrier to fine particulates (>0.01 microns*)

Comfort - Moisture vapour permeable ("breathable") to help reduce the risk of heat stress

Silicone free - Critical in paint spraying applications

Low linting - Reduces the risk of fibre contamination in some critical areas

Optimised body fit - Improves wearer comfort and safety

Anti-static - Tested according to EN 1149-5

*EMSL test method

Specialist Approvals



Biological Agents
EN 14126:2003



Suitable for Ex-Zones

