FABRIC PERFORMANCE

	MICROGARD® 1500	MICROGARD® 1500 PLUS	MICROGARD® 1500 PLUS FR	MICROGARD® 2000	MICROGARD® 2300	MICROGARD® 2500	MICROCHEM® 3000	MICROCHEM® 4000	MICROCHEM® 5000	MICROCHEM® 6000	MICROGARD® FR	MICROCHEM® CFR
	SMS MICROGARD® 1500*	Anti-static SMS MICROGARD® 1500 PLUS*	FR treated anti-static SMMS	Microporous PE laminate MICROGARD® 2000 COMFORT**	PE coated PP/PE Spunbond	Microporous PP laminate	Spunbond PP with barrier film	Multi-layer barrier laminate	Multi-layer barrier laminate	Multi-layer barrier laminate	Flame resistant treated Sontara and nonwoven nylon fabric	Flame resistant treated Sontara and nonwoven nylon fabric with PVC barrier film RED FABRIC
EN 14325 FABRIC PHYSICAL TESTS												
EN 530 Abrasion	>10	>10	>10	>100	>10	>100	>500	>2,000	>2,000	>2,000	>500	>2,000
EN ISO 7854 Flex Cracking	>15,000	>15,000	>100,000	>40,000	>1,000	>40,000	>100,000	>40,000	>5,000	>1,000	>100,000	>15,000
EN ISO 9073-4 Tear Resistance (MD)	>20 N	>20 N	>40 N	>40 N	>60 N	>40 N	>40 N	>60 N	>60 N	>40 N	>40 N	>40 N
EN ISO 9073-4 Tear Resistance (CD)			>20 N	>10 N	>40 N	>20 N	>20 N	>40 N	>60 N	>40 N	>20 N	>20 N
EN ISO 13934-1 Tensile Strength (MD)	>30 N	>30 N	>100 N	>100 N	>100 N	>100 N	>100 N	>100 N	>100 N	>250 N	>100 N	>100 N
EN ISO 13934-1 Tensile Strength (CD)			> 60 N	>30 N	>60 N	>100 N	>60 N	>60 N	>100 N	>250 N	>60 N	>60 N
EN 863 Puncture Resistance	>5 N	>5 N	>5 N	>5 N	>5 N	>10 N	>10 N	>10 N	>10 N	>20 N	>10 N	>10 N
SPECIALIST TESTS												
EN 1149-5 Electrostatic properties (anti-static)		✔	✔	✔	✔	✔	✔	✔	✔		✔	✔
BS EN 20811 Hydrostatic Head (water pressure test)	>40 cm	>40 cm	>50 cm	>200 cm	>200 cm	>250 cm	>400 cm	>500 cm	>750 cm	>850 cm		
EN ISO 14116 Limited Flame Retardancy			Index 1/0/0								Index 1/0/0	Index 1/0/0
EN ISO 6530 Repellence to Liquids - 30% Sulphuric Acid	>95%	>95%	>90%	>95%	>95%	>95%					>95%	>95%
EN ISO 6530 Repellence to Liquids - 10% Sodium Hydroxide	>95%	>95%	>95%	>95%	>95%	>95%					>95%	>95%
EN ISO 6530 Repellence to Liquids - Butan-1-ol				>95%	>95%	>80%						>90%
EN ISO 6530 Resistance to penetration by liquids - *o*-Xylene				>80%	>95%	>90%						>90%
EN ISO 6530 Resistance to penetration by liquids - 30% Sulphuric Acid	<1%	<1%	<1%	<1%	<1%	<1%					<1%	<1%
EN ISO 6530 Resistance to penetration by liquids - 10% Sodium Hydroxide	<1%	<1%	<1%	<1%	<1%	<1%					<1%	<1%
EN ISO 6530 Resistance to penetration by liquids - Butan-1-ol	>10%	>10%	>10%	<1%	<1%	<1%					>10%	<1%
EN ISO 6530 Resistance to penetration by liquids - *o*-Xylene	>10%	>10%	>10%	<1%	<1%	<1%					>10%	<1%
EN ISO 6529/EN 374-3 Permeation Test - NBT 1.0 µg / cm² / min * **												
Acetone							28 min	>480 min	>480 min	>480 min		
Acetonitrile							7 min	>480 min	>480 min	>480 min		
Ammonia (Gas, 1 atmos.)							3 min	60 min	>480 min	>480 min		
Carbon Disulphide						5 min		2 min	>480 min	>480 min		
Chlorine Gas (Gas, 1 atmos.)							10 min	>480 min	>480 min	>480 min		
Dichloromethane								9 min	59 min	>480 min		
Diethylamine									>480 min	>480 min		
Ethyl Acetate								>480 min	>480 min	>480 min		
n-Hexane								>480 min	>480 min			
Hydrochloric Acid (36-37% w/w)							>480 min	>480 min				>480 min
Hydrogen Chloride (Gas, 1 atmos.)							8 min	>480 min	>480 min	>480 min		
Methanol					>480 min (Y)		>480 min	>480 min	>480 min	>480 min		4 min
Sodium Hydroxide (50% w/w)					>480 min (Y)	>480 min	>480 min	>480 min	>480 min	>480 min		
Sulphuric Acid (95-96% w/w)					>480 min	>480 min	>480 min	>480 min	>480 min	>480 min		16 min
Tetrahydrofuran								5 min	>480 min	>480 min		
Toluene								>480 min	>480 min	>480 min		
EN 14126 BARRIER TO INFECTIVE AGENTS												
ISO 16603 Resistance to penetration by blood/fluids under pressure				Pass at 20 kPa	Pass at 20 kPa	Pass at 20 kPa	Pass at 20 kPa	Pass at 20 kPa	Pass at 20 kPa	Pass at 20 kPa		
ISO 16604 Resistance to penetration by blood borne pathogens				Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6		
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact)				Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6	Class 6 of 6		
ISO/DIS 22611 Resistance to biologically contaminated aerosols				Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3		
EN ISO 22612 Resistance to dry microbial penetration				Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3	Class 3 of 3		

* Results shown are fabric minimum performance. For specific performance data on M1500 fabrics please contact Microgard Limited for a Product Technical Data Sheet.
** Fabric results for microporous fabric which covers at least 85% of the product. Refer to M1500 PLUS results for back panel fabric performance.
*** Permeation results recorded at 0.1 µm/cm²/min for M2500 PLUS fabric. ✔ = Pass (Y) 2300 Yellow Fabric result only.

For additional chemical permeation data visit: **www.microgard.com**