

Microgard 2000 Plus – Technical Data Sheet

Fabric Details	App. Weight
Microporous PE Laminate	63gsm

EN14325 Fabric Physical Test Results	
EN 530 Abrasion	100
EN ISO 7854 Flex Cracking	40,000
EN ISO 9073-4 Tear Resistance (MD)	40.7N
EN ISO 9073-4 Tear Resistance (CD)	18.6N
EN ISO 13934-1 Tensile Strength (MD)	108.1N
EN ISO 13934-1 Tensile Strength (CD)	48.3N
EN 863 Puncture Resistance	8.2N
EN ISO 13938-1 Burst Resistance	184.1kPa
EN 13274-4 Resistance to ignition	Pass
EN 1149-1 Anti-static	Pass
BS EN 20811 Hydrostatic Head (water pressure test)	232cm

EN14126 Fabric Barrier to Infective Agents	
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 Plus – Technical Data Sheet

ISO 6530 – Fabric Repellency & Resistance to Liquid Chemicals	Percentage %
Repellency to Liquids - 30% Sulphuric Acid	96.7
Repellency to Liquids - 10% Sodium Hydroxide	96.7
Repellency to Liquids - n-heptane (undiluted)	93.8
Repellency to Liquids - Isopropanol	95.5
Resistance to penetration by liquids - 30% Sulphuric Acid	0.0
Resistance to penetration by liquids - 10% Sodium Hydroxide	0.0
Resistance to penetration by liquids - n-heptane (undiluted)	0.0
Resistance to penetration by liquids - Isopropanol	0.0

Aloxite Particle Penetration Test (Fabric Filtration Efficiency)	Percentage %
Particle Size 1.0 - 1.5µm	>99
Particle Size 1.5 - 2.0µm	>99
Particle Size 2.0 - 2.5µm	>99
Particle Size 2.5 - 3.0µm	>99
Particle Size 3.0 - 3.5µm	>99
Particle Size >3.5µm	100

EN 374-3 Chemical Permeation – 1.0µg/cm²/min Permeation Rate		
Chemical Name	Cas Number	Normalised Breakthrough Time (minutes)
Sodium Hydroxide (30%)	1310-73-2	>480

All chemical tests and breakthrough times quoted relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times – particularly when worn or damaged. The final determination of suitability is the user's responsibility.

WHOLE SUIT TESTING	
EN 14605 Type 4	Pass
EN ISO 13982-1 (&2)Type 5	Pass <5% TIL
EN 13034 Type 6	Pass
EN 1073-2 Barrier to Radioactive particulates	Pass - Class1
ISO 13935-2 Seam Strength	>100N