



MICROGARD® FR Fabric Technical Data Sheet

Issue 2

Basic Description:	65% Flame Resistant Treated Sontara (55% Wood Pulp and 45% Polyester fibres), 15% treatment for repellency and flame resistance, 20% nonwoven nylon fabric
Basis Weight:	102gsm
Colour(s):	Denim Blue

Fabric Details	
EN 31092/ISO 11092 Thermal Resistance (Rct in m ² ·K/W)	22.7·10 ⁻³
EN 31092/ISO 11092 Water Vapour Resistance (Ret in m ² ·Pa/W)	2.2
EN ISO 9237 Air Permeability (in l/m ² ·s)	174

Fabric Physical Tests according to EN 14325: 2004		
Test Method	Result	EN Class
EN530 Method 2 Abrasion Resistance	500 cycles	3 of 6
ISO 7854 Method B Flex Cracking Resistance	100,000 cycles	6 of 6
EN ISO 9073-4 Tear Resistance (MD)	42.1N	2 of 6
EN ISO 9073-4 Tear Resistance (CD)	263N	
ISO 13938-1 Bursting Resistance	120kPa	2 of 6
ISO 13937-2 Tear Strength	>7.5N	-
ISO 13934-1 (MD) Tensile Strength	164.7N	2 of 6
ISO 13934-1 (CD) Tensile Strength	90.7N	
EN 863 Puncture Resistance	17N	2 of 6
EN 13274-4 Resistance to Ignition	Pass	
EN 25978 Resistance to Blocking	No blocking	
EN1149-5: 2008	Pass	

Chemical Repellence EN368/EN ISO 6530		
Chemical	Result	EN Class
30% Sulphuric Acid	98.2%	3 of 3
10% Sodium Hydroxide	98.1%	3 of 3

Chemical Penetration EN368/EN ISO 6530		
Chemical	Result	EN Class
30% Sulphuric Acid	0.0%	3 of 3
10% Sodium Hydroxide	0.0%	3 of 3

Flame Resistance Testing	
EN ISO 15025 Procedure A Limited Flame Spread	Index 1 of 3

Safety Note: All chemical tests and breakthrough times given relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times, particularly when worn or damaged. It is the user's responsibility to select an appropriate garment, gloves, boots and other equipment for the particular use. The user shall be responsible for determining how long the garment can be worn for the particular use and whether it can be suitably cleaned for re-use. Microgard Limited does not give any warranties or make any representations about its garments other than those contained in the official literature supplied by Microgard Limited with each garment.