



MICROGARD[®]
2500

Range Overview
MICROGARD[®] 2500

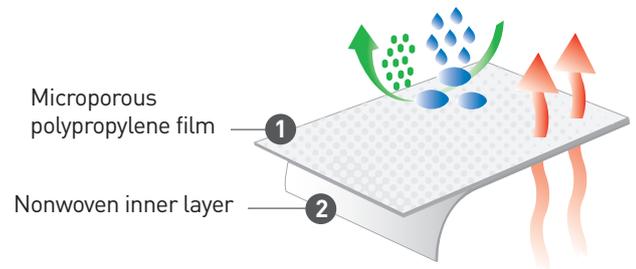
MICROGARD® 2500 PLUS & STANDARD

MICROGARD®
2500



MICROGARD® 2500 is a unique material offering exceptional mechanical strength, liquid and particulate protection.

MICROGARD® 2500 is a durable microporous polypropylene laminate which provides an excellent barrier to chemical spray and infective agents. This specialist fabric is also breathable to help ensure user comfort. The fabric's physical strength and flexibility ensures protection and comfort even in the harshest environments.



Features & Benefits

Protection - Achieves the highest classifications for protection from biological agents in accordance with EN 14126:2003 and ASTM F 1671 for penetration of blood, body fluids and blood-borne pathogens

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

Anti-static - Tested according to EN 1149-5

Low linting - Reduced risk of contamination in critical areas

Applications

- Viral contaminated areas (including Avian Influenza)
- Biological protection
- Emergency medical response
- Medical research
- Chemical and pharmaceutical industries
- Low pressure industrial cleaning
- Industrial paint spraying
- Nuclear industry

Protection Levels & Additional Properties



TYPE 4-B



TYPE 5-B



TYPE 6-B



EN 1073-2



EN 1149-5

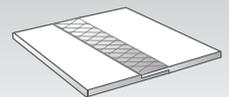


EN 14126

MICROGARD® 2500 PLUS in addition is approved to Type 3-B certification.

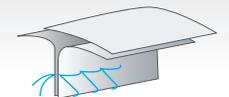
Ultrasonically Welded Seams (STANDARD)

Provides a strong liquid and particle barrier



Stitched & Taped Seams (PLUS)

Increased strength and an effective liquid & particle barrier



Innovative Design Features



Finger loops to prevent sleeve movement when working above your head



Hoods designed for optimum fit with respirators, particularly full face masks

Specialist Approvals



Biological Agents
EN 14126:2003

MICROGARD Limited

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MICROGARD®
High Performance Protection in Comfort

MICROGARD® 2500 STANDARD & PLUS

MICROGARD®
2500

MICROGARD® 2500 STANDARD & PLUS Coveralls & Accessories

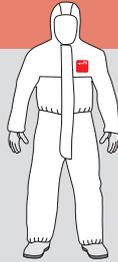
Model 111

Suit Features

- 3-piece hood
- Elasticated hood, wrist, waist and ankles
- 2-way front zip with resealable storm flap
- Finger loops

Sizes: S-5XL

Colour: White



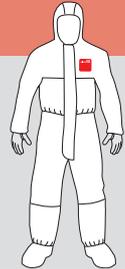
Model 122

Suit Features

- 3-piece hood
- Elasticated hood, wrists and waist
- 2-way front zipper with resealable storm flap
- Finger loops
- Integrated socks with boot overlap

Sizes: S-5XL

Colour: White



Model 203

Lab Coat

- Collar
- Stud front fastening
- Left breast pocket
- Lower right pocket
- Bound seams

Sizes: S-5XL

Colour: White



Model 406

Overboots

- Elastic to top of boot
- Tie fastening
- Bound seams

Size: One Size [fits size 42-46]

Colour: White



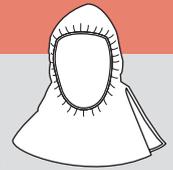
Model 503

Cape Hood

- Balaclava Style
- Elasticated face opening
- Bound seams

Size: One Size

Colour: White



Model 213

Apron

- Tie fastening to waist
- 100 cm long tie fastening

Sizes: One Size

Colour: White



Model 407

Overboots -ESD

- Elasticated opening
- PVC anti-slip sole
- Adjustable Shoe Tie
- Bound seams
- ESD PVC Sole

Size: 42-46

Colour: White



Model 507

Cape Hood

- Balaclava Style cape hood covering part of shoulders
- Velcro fastening to front
- Bound seams

Size: One Size

Colour: White



Model 400

Overshoes

- Elasticated opening
- Bound seams

Size: One Size [fits size 42-46]

Colour: White



Model 409

SOCO Overboots

- Elastic to top of boot
- Tie fastening
- Blue binding to seams
- Reinforced Surestep non-slip soles
- Adjustable shoe tie

Size: One Size [fits size 42-46]

Colour: White



Model 600

Over sleeves

- Elasticated at both ends
- Bound seams

Size: One Size

Colour: White



MICROGARD® 2500 Technical Data

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MICROGARD® 2500 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 (EN 14325)
EN 530 Abrasion	>100 cycles	2 of 6
EN ISO 7854 Flex Cracking	>40,000 cycles	5 of 6
EN ISO 9073-4 Tear Resistance (Machine Direction)	>20N	2 of 6
EN ISO 9073-4 Tear Resistance (Cross Direction)	>20N	
EN ISO 13934-1 Tensile Strength (Machine Direction)	>100N	3 of 6
EN ISO 13934-1 Tensile Strength (Cross Direction)	>100N	
EN 863 Puncture Resistance	>100N	2 of 6
EN ISO 13938-1 Burst Resistance	>80kPa	2 of 6
EN 1149-5 Electrostatic Properties (Surface Resistance)	<2.5 x 10 ⁹	-
ISO 13935-2 Seam Strength	>125N	4 of 6

MICROGARD® 2500 has been tested against numerous chemicals.

EN ISO 6529 Chemical Permeation Test Results			
Chemical Name	CAS Number	BT at 1.0µg/cm ² /min	EN Class (EN 14325)
Sodium Hydroxide (aq.10 wt%)	13-10-73-2	>480	6 of 6
Sulphuric Acid (95-96 wt%)	7664-93-9	>480	6 of 6

The following table sets out MICROGARD® 2500 performance for resistance to chemical penetration in accordance with EN ISO 6530.

Fabric Repellence & Penetration - Resistance to Liquid Chemicals	Result (%)	EN Class
Repellence of Liquids - 30% Sulphuric Acid	>95	3 of 3
Repellence of Liquids - 10% Sodium Hydroxide	>95	3 of 3
Repellence of Liquids - n-heptane (undiluted)	>80	1 of 3
Repellence of Liquids - Isopropanol	>90	2 of 3
Resistance to penetration by liquids - 30% Sulphuric Acid	0.0	3 of 3
Resistance to penetration by liquids - 10% Sodium Hydroxide	0.0	3 of 3
Resistance to penetration by liquids - n-heptane (undiluted)	0.0	3 of 3
Resistance to penetration by liquids - Isopropanol	0.0	3 of 3

MICROGARD® 2500 when tested in accordance with EN 14126: 2003 demonstrates an excellent barrier to infective agents. The specific test results are detailed in the table below.

EN14126 Fabric 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® 2500 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

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