

# MICROGARD® 1800



## Features & Benefit

**Protection** - Proven barrier to low concentration liquid chemicals, liquid & particulate biological hazards

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

**Silicone Free** - Critical in spray painting applications

**Low Linting** - Reduced risk of contamination in critical areas

**Anti-static** - Tested according to EN 1149-5

**Optimised Body Fit** - Improves wearer comfort and safety

## Applications

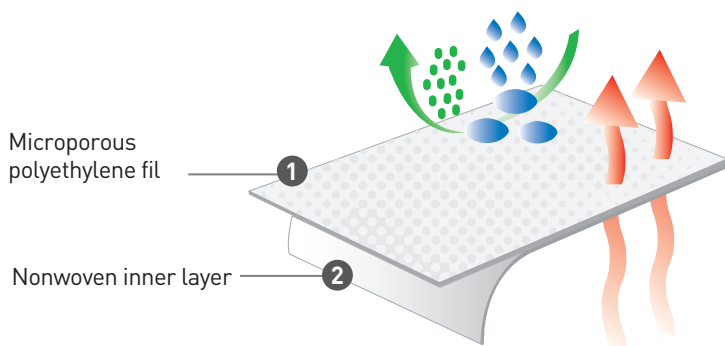
- Pharmaceutical industries
- Paint spraying
- Boat and ship building
- Mining
- General Maintenance
- Powder Handling



**MICROGARD® 1800** is a lightweight, breathable material and so is particularly suited to warmer working environments. Provides a good barrier to low hazard liquid spray and fine particulates.

## MICROGARD® 1800

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## MICROGARD® 1800 STANDARD Coverall Models

### Protection Levels & Additional Properties



TYPE 5



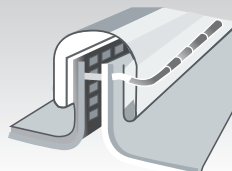
TYPE 6



EN 1149-5

### Bound Seams

Superior strength, liquid and particle barrier



### Features and benefit

**Protection** - Low hazard liquid spray, splash and particle protection

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

**Silicone Free** - Critical in spray painting applications

**Anti-static** - Tested according to EN1149-5

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

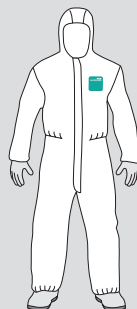
**Optimised body fit** - Improves wearer comfort and safety

- 3-piece hood
- 2-way front zipper with re-sealable storm flap
- Elasticated wrists, waist and ankles

**Sizes:** S-5XL

**Colour:** White

**Available model 111**



## MICROGARD® 1800 Range Overview

### MICROGARD® 1800 STANDARD

MICROGARD® 1800 STANDARD is a lightweight, breathable coverall and is particularly suited to warmer working environments. Provides a good barrier to low hazard liquid spray and fine particulates.



▲ MICROGARD® 1800 STANDARD

### MICROGARD® 1800 Ts PLUS

MICROGARD® 1800 Ts PLUS provides the wearer with entry level, low hazard liquid and particulate protection. Ideal for a wide range of general industrial applications.



▲ MICROGARD® 1800 Ts PLUS

### Applications

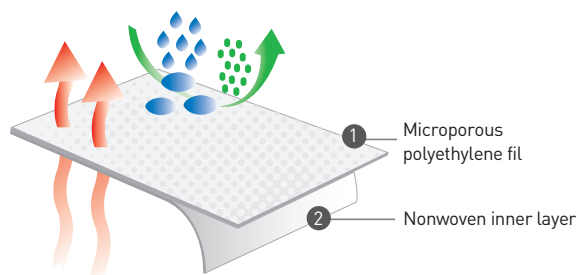
- General Maintenance
- Paint Spraying
- Powder Handling

# MICROGARD® 1800 Ts PLUS

MICROGARD®  
**1800**  
Ts PLUS

MICROGARD® 1800 Ts PLUS provides the wearer with entry level, low hazard liquid and particulate protection. Ideal for a wide range of general industrial applications.

MICROGARD®1800 is a lightweight, breathable material and so is particularly suited to warmer working environments. With stitched and taped seams. Provides a good barrier to low hazard liquid spray and fine particulates.



## MICROGARD® 1800 Ts PLUS Coverall

### Protection Levels & Additional Properties



TYPE 4-B



TYPE 5-B



TYPE 6-B



EN 14126



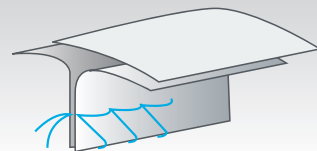
EN 1073-2



EN 1149-5

### Stitched & Taped Seams

Internal stitching which is overtaped to offer increased strength and an effective barrier to liquids and particulates.



### Applications

- Pharmaceutical industries
- Paint spraying
- Boat and ship building
- Mining

### Features and benefit

- **Protection** - Proven barrier to low concentration liquid chemicals, liquid & particulate biological hazards
- **Comfort** - Moisture vapour permeable ("breathable") to help reduce the risk of heat stress
- **Silicone Free** - Critical in spray painting applications
- **Low Linting** - Reduced risk of contamination in critical areas
- **Anti-static** - Tested according to EN 1149-5
- **Optimised Body Fit** - Improves wearer comfort and safety
- **Tunnelled elasticated wrists, hood and ankles** - Helps to minimize the risk of linting and cross contamination
- **Thumb loops** - Help to prevent sleeve movement when working above your head
- **Chinstrap** - Helps to reduce the risk of cross contamination

**Sizes:** S-5XL

**Colour:** White

**Available in the following models:**  
103, 111, 122 & 156

# MICROGARD® 1800

## MICROGARD® 1800 Technical Data

MICROGARD® 1800 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	EN Class (EN 14325)
EN 530 Abrasion	1 of 6
EN ISO 7854 Flex Cracking	3 of 6
EN ISO 9073-4 Tear Resistance (Machine Direction)	2 of 6
EN ISO 9073-4 Tear Resistance (Cross Direction)	
EN ISO 13934-1 Tensile Strength (Machine Direction)	1 of 6
EN ISO 13934-1 Tensile Strength (Cross Direction)	
EN 863 Puncture Resistance	1 of 6
EN 1149-5 Electrostatic Properties (Surface Resistance)	Pass
ISO 13935-2 Seam Strength 1800 STANDARD	2 of 6
ISO 13935-2 Seam Strength 1800 Ts PLUS	3 of 6
BS EN 20811 Hydrostatic Head (Water Pressure Test)	>100
Comfort Test Method	Result
EN 31092/ISO 11092 Water Vapour Resistance ( $R_{eH}$ ) [ $m^2 \cdot Pa/W$ ]	<20 $m^2 \cdot Pa/W$
EN 31092/ISO 11092 Thermal Resistance ( $R_{eT}$ ) [ $m^2 \cdot K/W$ ]	10.8 x 10 <sup>-3</sup> $m^2 \cdot K/W$

EN ISO 6529:2001 Chemical Permeation Barrier			
Chemical	CAS Number	EN Class	EN Class (EN 14325:2004)
Doxorubicin HCl	23214-92-8	>480	6 of 6

The following table sets out MICROGARD® 1800 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 - o-Xylene	>90	2 of 3
Repellence of Liquids - Butan-1-ol	>95	3 of 3
Resistance to penetration by liquids - 30% Sulphuric Acid	< 1	3 of 3
Resistance to penetration by liquids - 10% Sodium Hydroxide	< 1	3 of 3
Resistance to penetration by liquids - o-Xylene	< 1	3 of 3
Resistance to penetration by liquids - Butan-1-ol	< 1	3 of 3

MICROGARD® 1800 when tested in accordance with EN 14126:2003 demonstrates an excellent barrier to infective agents.  
(applicable to Ts PLUS model only)

EN 14126:2003 - Barrier to Infective Agents	Result	EN Class
ISO 16603 Resistance to penetration by blood/fluids under pressure	Pass to 7 kPa	-
ISO 16604 Resistance to penetration by blood borne pathogens	Pass to 7 kPa	Class 4 of 6
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact)	No penetration (up to 75 min)	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® 1800 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](http://www.microgard.com)



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