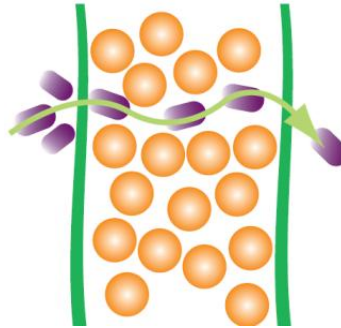


Body Protection II

What is Permeation?

Permeation is the process by which a hazardous chemical moves through a material on a molecular level. Molecules of chemical absorb into the outer surface of the material. They then diffuse across the material and are released or desorbed from the inner surface.

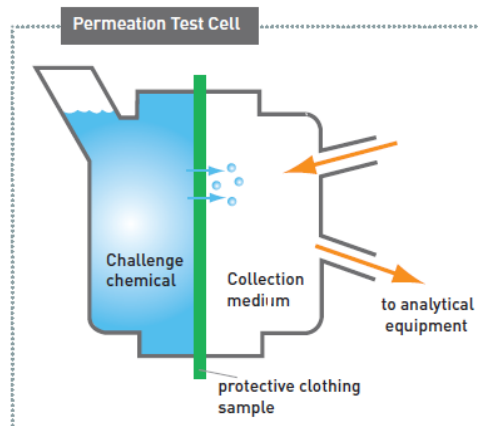
Permeation rate is the rate which the hazardous chemical permeates through the test fabric.



Breakthrough Time (BT)

This is the average time between initial contact of the chemical with the outside surface of the fabric and the time at which the chemical is detected at the inside surface of the fabric at the permeation rate specified by the appropriate standard.

The resistance of MICROCHEM® to permeation by a hazardous chemical is determined by measuring the breakthrough time and permeation rate of the chemical through the fabric. Permeation tests are performed by independent, accredited laboratories in accordance with EN ISO 6529, EN 374-3 or ASTM F739.



What is Penetration?

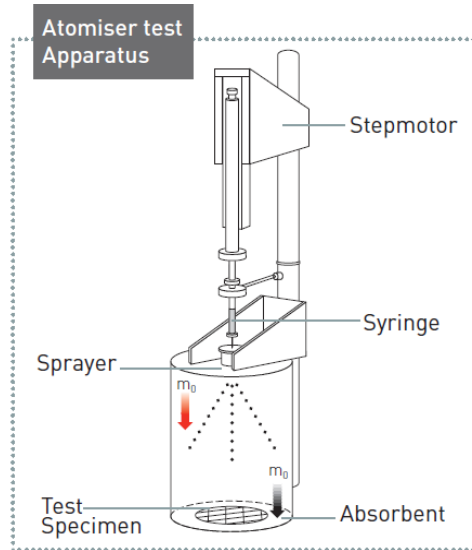
Penetration is a process by which a chemical flows through holes or essential openings in a material on a non-molecular level.



EN 14786 "Atomizer Test"

EN 14786 "Atomizer Test" is a test method to determine the resistance of protective clothing materials against penetration by atomized liquid chemicals, emulsions and dispersions.

In this test, a specimen will be contaminated by a small quantity of liquid chemical, emulsion or dispersion. After 30 minutes exposure, the specimen will be analyzed to measure the quantity of liquid which penetrated. The penetration of a protective clothing material is defined as the ratio of the mass of chemical penetrated to the mass of chemical applied.



MICROGARD® 1500 PLUS



MICROGARD®
1500
PLUS



TYPE 5



TYPE 6



EN 1073-2



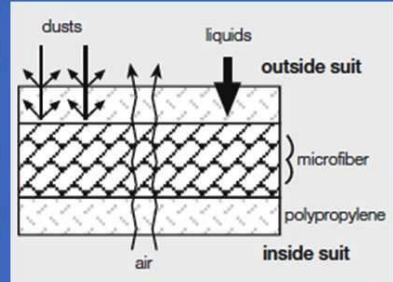
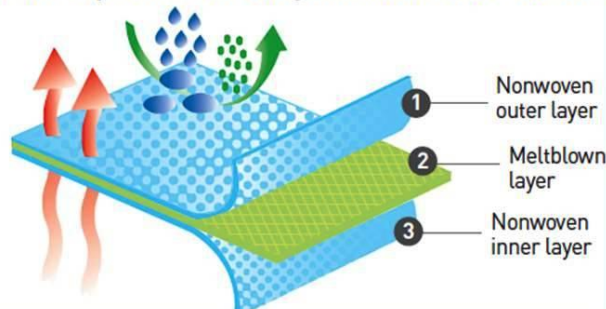
EN 1149-1

Applications

- Asbestos related work
- Handling powders
- General maintenance
- Construction
- Pharmaceutical industries
- Wood and metal processing
- Touch-up paint spraying
- Fibreglass / resin applications / ceramic fibres

The SMS fabric used in the MICROGARD® 1500 PLUS coverall is highly breathable, making it ideal for operatives working in warmer environments.

SMS fabrics are a particularly good barrier against particulates such as, asbestos, brick dust and cement dust and will provide protection from light aerosol mists; as found in some paint spray environments.



MICROGARD® 2000 COMFORT & MICROGARD® 2000 ACCESSORIES



**MICROGARD®
2000
COMFORT**

Applications

- Pharmaceutical industries
- Agriculture
- Cleanrooms
- Paint spraying
- Crime scene investigation
- Veterinary services



TYPE 5



TYPE 6



EN 1073-2



EN 1149-1



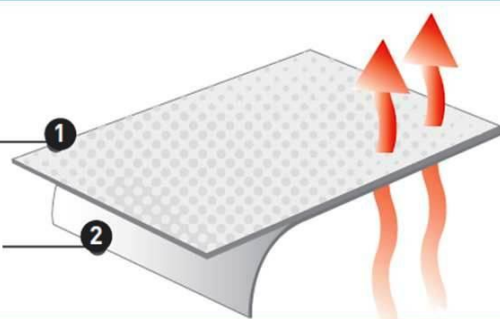
Breathable back panel to help reduce the risk of heat stress



Finger Loops

Microporous polyethylene film

Nonwoven inner layer



Breathable SMS back panel

MICROCHEM® 3000



**MICROCHEM®
3000**

Applications

- Chemicals
- Oil and Petrochemicals
- Pharmaceutical
- Food Industry (caustic clean downs)
- Sewage purification installations
- Industrial and tank cleaning
- Mining



TYPE 3-B



TYPE 4-B



TYPE 5-B



EN 1073-2



EN 1149-1

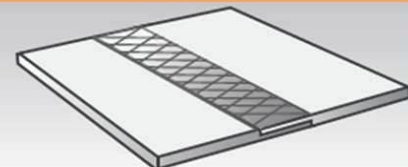


EN 14126

Ultrasonically Welded Seams

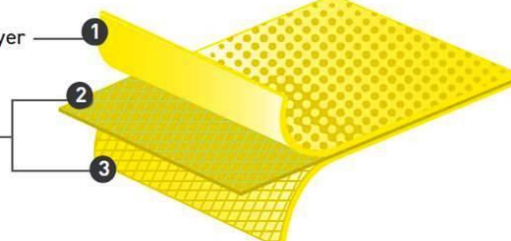
Provides a strong liquid and particle barrier

(MICROCHEM® 3000 PAPR features welded and taped seams)



External film barrier layer

Nonwoven layers



Double cuff design



Double zip system

MICROCHEM® 4000

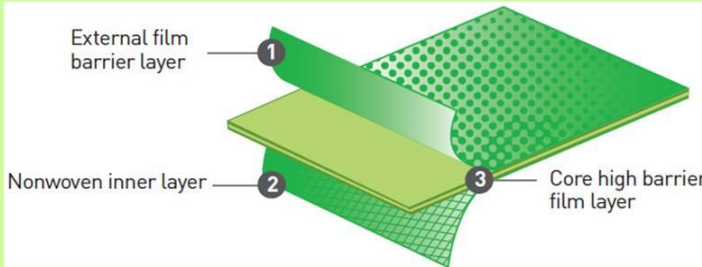
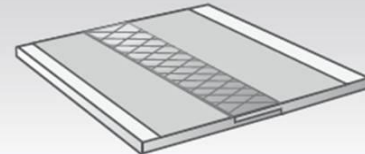


Applications

- Chemical Handling / Transportation
- Oil-based Mud Protection
- Hazardous Waste Remediation
- Sewage Purification Installations
- Industrial / Tank Cleaning
- HAZMAT Emergency Response (i.e. Level B)
- Pharmaceutical
- Mining
- Agriculture

Ultrasonically Welded & Taped Seams

A feature throughout the MICROCHEM® 4000 range, this seam technology is our highest barrier to liquids and particulates.



Double zip system



Double cuff design

MICROGARD® 2000 ACCESSORIES

MICROGARD® 2000 Accessories

Model 406

Overboots

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



Size: One Size (fits size 42-46)

Colour: White

Model 503

Hood

- Balaclava Style
- Elasticated face opening
- Bound seams



Size: One Size

Colour: White

Model 600

Oversleeves

- Elasticated at both ends
- Bound seams



Size: One Size

Colour: White

Find out more about our offering on body protection products by making enquiry at info@amsales.com.my or call 603-6157 8822 **NOW!**

Source:

1. MICROGARD® High Performance Protection in Comfort Product Catalogue: Chemical Protective Clothing
2. www.migrogard.com

"The Preferred Industrial Solutions Provider"

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