



Range Overview
MICROCHEM® 3000

MICROCHEM®
3000

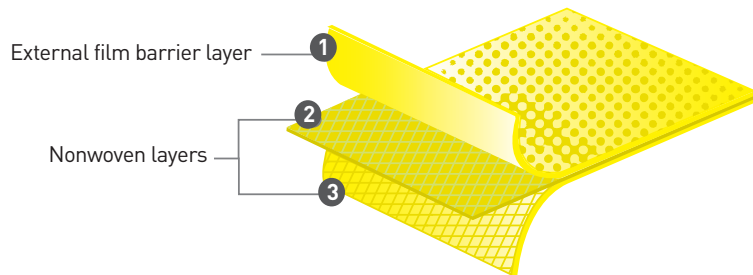
MICROCHEM[®] 3000

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3000



MICROCHEM[®] 3000 is one of the lightest and most comfortable chemical protective materials on the market today. This durable multi-layer fabric provides an extremely effective barrier against both inorganic chemicals and biological hazards.

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Features & Benefits

Protection - Excellent liquid penetration resistance and barrier to fine particulates (>0.01 microns*)

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

Silicone free - Critical in paint spraying applications

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

Optimised body fit - Improves wearer comfort and safety

Anti-static - Tested according to EN 1149-5

*EMSL test method

Applications

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

Protection Levels & Additional Properties



TYPE 3-B



TYPE 4-B



TYPE 5-B



EN 14126



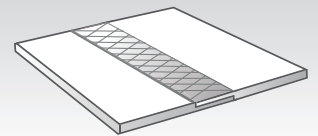
EN 1073-2



EN 1149-5

Ultrasonically Welded Seams

Provides a strong liquid and particle barrier



Specialist Approvals



Biological Agents
EN 14126:2003



Suitable for Ex-Zones

Technical Support

Contact the Microgard technical team to discuss facilitating independent permeation testing of your specific chemical or chemical mixture

Email: technical@microgard.com

Technical datasheets & product flyers available to download at: www.microgard.com



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High Performance Protection in Comfort

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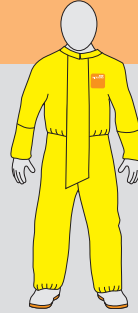
MICROCHEM® 3000 Coverall Models

Model 103

Suit Features

- Collar
- Double zip closure
- Double cuffs
- Elasticated waist, double cuffs and ankles

Sizes: S-5XL
Colour: Yellow

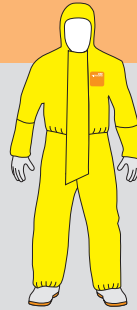


Model 111

Suit Features

- 2 piece hood
- Double zip closure
- Double cuffs
- Elasticated hood, waist, double cuffs and ankles

Sizes: S-5XL
Colour: Yellow

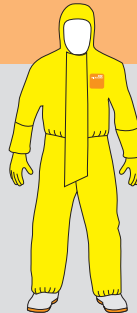


Model 121

Suit Features

- 2 piece hood
- Double zip closure
- Elasticated hood, waist, ankles and sleeve over cuffs
- Attached Ansell Barrier Gloves

Sizes: S-5XL
Colour: Yellow

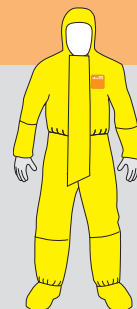


Model 122

Suit Features

- 2 piece hood
- Double zip closure
- Elasticated hood, double cuffs and waist
- Integrated socks with boot overlap

Sizes: S-5XL
Colour: Yellow

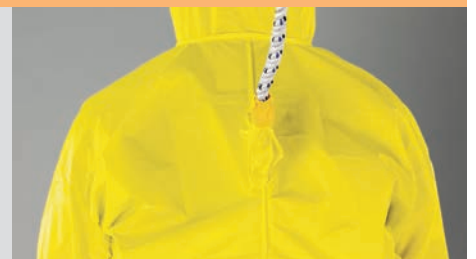
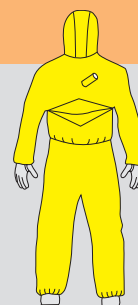


Model 162

Suit Features

- Pass-thru device for use with fall arrest equipment
- 2 piece hood
- Double zip closure
- Double cuffs
- Elasticated hood, waist, double cuffs and ankles

Sizes: S-5XL
Colour: White



MICROCHEM® 3000 Accessories

MICROCHEM®
3000

MICROCHEM® 3000 Accessories

Model 201



Jacket

- 2 piece hood
- Double zip closure
- Elasticated hood, wrists and hem
- Welded seams

Sizes: S-5XL

Colour: Yellow

Model 301



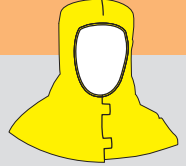
Trousers

- Elastication to waist and ankles
- No pockets
- Welded seams

Sizes: S-2XL

Colour: Yellow

Model 507



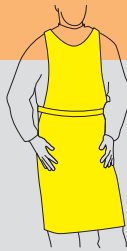
Cape Hood

- Balaclava style cape hood covering part of shoulders
- Velcro fastening to front
- Welded seams

Size: One Size

Colour: Yellow

Model 213



Apron

- Tie fastening to waist
- 100 cm long tie fastening

Size: One Size

Colour: Yellow

Model 400



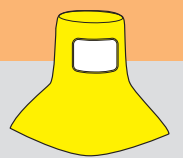
Overshoes

- Elasticated opening
- Welded seams

Size: One size (fits size 42-46)

Colour: Yellow

Model 508



Cape Hood with visor

- Balaclava style cape hood covering part of shoulders
- Welded seams
- Visor to face opening

Size: One Size

Colour: Yellow

Model 214



Apron with Sleeves

- Rear velcro fastening
- Elasticated wrists
- Welded seams

Sizes: S-5XL

Colour: Yellow

Model 406



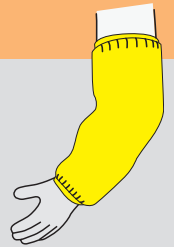
Overboots

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

Size: One Size (fits size 42-46)

Colour: Yellow

Model 600



Oversleeves

- Elasticated at both ends
- Welded seams

Size: One Size

Colour: Yellow

For more information on our range of accessories, or if you can't see the accessory you are looking for, please contact Microgard Limited customer services Tel: **+44 (0) 1482 625444**, email sales@microgard.com or visit www.microgard.com

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MICROGARD®
High Performance Protection in Comfort

MICROCHEM® 3000 Technical Data

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MICROCHEM® 3000 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 (EN14325)
EN 530 Abrasion	>500 cycles	3 of 6
EN ISO 7854 Flex Cracking	>100,000 cycles	6 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	2 of 6
EN ISO 13934-1 Tensile Strength (Cross Direction)	>60N	
EN 863 Puncture Resistance	>10N	2 of 6
EN ISO 13938-1 Burst Resistance	>80kPa	2 of 6
EN 13274-4 Resistance to ignition	Pass	-
EN 1149-5 Electrostatic Properties (Surface Resistivity)	<2.5 x 10 ⁹	-
ISO 13935-2 Seam Strength	>125N	4 of 6

MICROCHEM® 3000 has been tested against over 100 chemicals.

EN ISO 6529 Chemical Permeation Test Results			
Chemical Name	CAS Number	BT at 1.0µg/cm ² /min	EN Class (EN 14325)
Acetic Acid Glacial	64-19-7	>480	6 of 6
Ethylene Glycol	107-21-1	>480	6 of 6
Ferric Chloride (45% w/w)	7705-08-0	>480	6 of 6
Formic Acid 90%	64-18-6	>480	6 of 6
Hexamethylene Diisocyanate	822-06-0	>480	6 of 6
Hydrazine Monohydrate 98% (containing Hydrazine, 64-65% w/w)	7803-57-8	>480	6 of 6
Hydrochloric Acid 37%	7647-01-0	>480	6 of 6
Hydrofluoric Acid (49% w/w)	7664-39-3	>480	6 of 6
Hydrogen Peroxide 35%	7722-84-1	>480	6 of 6
Isopropyl Alcohol	67-63-0	>480	6 of 6
Mercury	7439-97-6	>480	6 of 6
Methanol	67-56-1	>480	6 of 6
Nitrobenzene	98-95-3	>480	6 of 6
Perchloric Acid 30%	7601-90-3	>480	6 of 6
Sodium Hydroxide (40%)	1310-73-2	>480	6 of 6
Sodium Hypochlorite	7681-52-9	>480	6 of 6
Sulphuric Acid (96%)	7664-93-9	>480	6 of 6
Tetramethylammonium Hydroxide (20% w/w)	75-59-2	>480	6 of 6

MICROCHEM® 3000 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 Barrier to Infective Agents	Result	EN Class
ISO 16603 Resistance to penetration by blood/fluids under pressure	Pass to 20kPa	6 of 6
ISO 16604 Resistance to penetration by blood borne pathogens	Pass to 20kPa	6 of 6
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact)	No penetration (up to 75 mins)	6 of 6
ISO/DIS 22611 Resistance to biologically contaminated aerosols	No penetration	3 of 3
ISO 22612 Resistance to dry microbial penetration	No penetration	3 of 3

MICROCHEM® 3000 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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