



Microchem[®] 4000, when you can't compromise on protection

Protection Levels



Additional Properties



Microchem[®] 4000 fabric against chemical warfare agents*

Chemical	Breakthrough Time (hrs : mins)
Lewisite (L)	>06:00 <24:00
Mustard Agent (HD)	>24:00
Sarin (GB)	>24:00
VX	>24:00

Example of chemical permeation test results for Microchem[®] 4000 fabric

Chemical Name	CAS Number	Test method & permeation rate	Normalised Breakthrough Time (NBT)
Methyl Ethyl Ketone (MEK)	78-93-3	EN ISO 6529 1.0µm/cm ² /min	>540 mins
Liquid Phenol (90%)	108-95-2	EN ISO 6529 1.0µm/cm ² /min	>540 mins
Acetone	67-64-1	EN ISO 6529 1.0µm/cm ² /min	>540 mins
Chlorine Gas (99.5%)	7782-50-5	EN ISO 6529 1.0µm/cm ² /min	>540 mins
Toluene	108-88-3	EN ISO 6529 1.0µm/cm ² /min	>540 mins
3-N, N-Diethylenetriamine	111-40-0	EN 369 1.0µm/cm ² /min	>480 mins
Acetonitrile	75-05-8	EN 369 1.0µm/cm ² /min	>480 mins
Acrylamide	79-06-1	EN 369 1.0µm/cm ² /min	>480 mins
Dimethyl Sulphoxide (99%+)	67-68-5	EN 369 1.0µm/cm ² /min	>480 mins
Hydrochloric Acid (36%)	7647-01-0	EN 369 1.0µm/cm ² /min	>480 mins
Hydrofluoric Acid (60%)	7663-39-3	EN 369 1.0µm/cm ² /min	>480 mins
Nitric Acid Conc. (70%)	7697-37-2	EN 369 1.0µm/cm ² /min	>480 mins
Styrene	100-42-5	EN 369 1.0µm/cm ² /min	>480 mins
Xylene m	1330-20-7	EN 369 1.0µm/cm ² /min	>480 mins

* Tests performed according to TNO test protocol. Contact Microgard for full details.

The unique Microchem® 4000 5-layer fabric is renowned for its lightweight and comfortable textile feel and an exceptional barrier to organic & inorganic chemicals.

Applications

- Chemical manufacturing, handling or transportation
- Industrial hazardous waste handling
- Land reclamation and clean up
- Emergency services first response chemical spill

Microchem® 4000 coveralls meet the following European Norms

- **Type 3** EN 14605 Liquid tight suit
- **Type 4** EN 14605 Spray tight suit
- **Type 5** EN ISO 13982-1(&2) Dry particle suit
- **EN14126** Barrier to infective agents
- **EN1073-2** Barrier to radioactive particulates – Class 1
- **EN1149-1** Anti-static

We haven't got data on your chemical?

Contact the tech team to discuss facilitating independent permeation testing of your specific chemical or chemical mixture.

Chemical permeation testing conducted on Microchem® 4000 fabric against over 100 chemicals according to EN374-3, EN369 or EN ISO 6529.

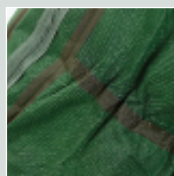
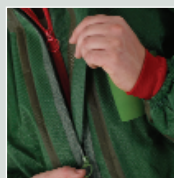
All chemical tests and breakthrough times quoted relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times – particularly when worn or damaged. The final determination of suitability is the user's responsibility.



For more information on test methods or to discuss permeation testing please visit www.microgard.com or contact the tech team on +44 (0) 1482 625444



Style 122 with fixed boot ends



MICROCHEM® 4000 - Suit Features

- Double zip system helps ensure a liquid tight seal every time
- Double cuff design to enable a liquid tight connection with chemical protective gauntlets*
- Internal sleeve cuff features knitted wrist for wearer comfort
- Hood designed for optimum fit with full face respirators
- Ultrasonically welded and taped seams

Coverall style 122 with fixed boot ends available to order!

*taping of wrists required

Colour
Green

Standard sizes S to XXXL

Accessories available see page 29

See page 27 for additional chemical permeation data or visit www.microgard.com