

Microchem® 4000 Coverall, Model 111

Front entry coverall with double zip system. Elasticated hood, waist & ankles. Elasticated double cuff, inner cuff in knitted fabric for comfort.

Part Number:	GR40-T-00-111
Seam Type:	Welded & Taped
CE Category:	Cat III

Fabric Details

Multi-layer barrier laminate

BS EN 20811 Hydrostatic Head (water pressure test)	>650cm
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EN14325 Fabric Physical Test Results	Result	EN Class
EN 530 Abrasion	2,000	6 of 6
EN ISO 7854 Flex Cracking	40,000	5 of 6
EN ISO 9073-4 Tear Resistance (MD)	88N	3 of 6
EN ISO 9073-4 Tear Resistance (CD)	44N	
EN ISO 13934-1 Tensile Strength (MD)	172N	2 of 6
EN ISO 13934-1 Tensile Strength (CD)	84N	
EN 863 Puncture Resistance	16N	2 of 6
EN ISO 13938-1 Burst Resistance	116kPa	2 of 6
EN 13274-4 Resistance to ignition	Pass	-
EN 13274-4 Resistance to flame	Pass	1 of 3
EN 1149-1 Anti-static	Pass	-

Whole Suit Testing

EN 14605 Type 3	Pass
EN 14605 Type 4	Pass
EN ISO 13982-1 Type 5	Pass <6% TIL
EN 1073-2 Barrier to Radioactive particulates	Class 1 of 3
ISO 13935-2 Seam Strength	185.2N 4 of 6

Microchem® 4000 Fabric Barrier to Infective Agents according to EN14126: 2003

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





EN ISO 6529 Chemical Permeation Test Results** (NBT at 1.0µg/cm²/min)

Chemical Name	Cas Number	Normalised Breakthrough Time (minutes)	EN Class
Acetone	67-64-1	>540	6 of 6
Acetonitrile	75-05-8	>540	6 of 6
Ammonia Gas (>99.98 wt%)	7664-41-7	60	3 of 6
Carbon Disulfide	75-15-0	2	-
Chlorine Gas (>99.8 wt%)	7782-50-5	>540	6 of 6
Dichloromethane	75-09-02	9	-
Diethylamine	109-89-7	Immediate	-
Ethyl Acetate	141-78-6	>540	6 of 6
n-heptane (99.8%)	142-82-5	>540	6 of 6
Hydrogen Chloride Gas (>99.0 wt%)	7647-01-0	>540	6 of 6
Methanol	67-56-1	>540	6 of 6
Sodium Hydroxide (40 wt%)	1310-73-2	>540	6 of 6
Sulphuric Acid (96%)	7664-93-9	>540	6 of 6
Tetrahydrofuran	109-99-9	5	-
Toluene	108-88-3	>540	6 of 6

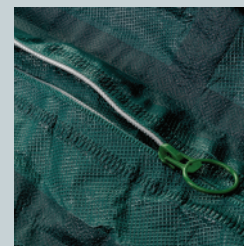
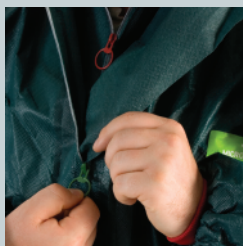
** Microchem® 4000 has been tested against over 150 chemicals. For information on specific chemicals please visit www.microgard.com.



GR40-T-00-111

MICROCHEM® 4000 - Suit Features

- Double zip system, ultrasonically welded seams and **NEW** seam taping method ensure liquid tight protection
- Double cuff design for improved protection
- Knitted internal sleeve cuff for wearer comfort



Safety Note: All chemical tests and breakthrough times given relate to laboratory tests on fabrics only. Seams and closures may have lower breakthrough times, particularly when worn or damaged. It is the user's responsibility to select an appropriate garment, gloves, boots and other equipment for the particular use. The user shall be responsible for determining how long the garment can be worn for the particular use and whether it can be suitably cleaned for re-use. Microgard Limited does not give any warranties or make any representations about its garments other than those contained in the official literature supplied by Microgard Limited with each garment.