



EN14325 Fabric Physical Test Results		EN Class
EN 530 Abrasion	2000	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	Pass
EN 13274-4 Resistance to flame	Pass	1 of 3
EN 1149-1 Anti-static	Pass	Pass

EN14126 Fabric Barrier to Infective Agents	
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

Microchem<sup>®</sup> 4000 – Technical Data Sheet

<b>EN ISO 6529 Chemical Permeation – 1.0µg/cm<sup>2</sup>/min Permeation Rate</b>			
<i>The 15 standard chemicals specified by EN14325: 2004*</i>			
<b>Chemical Name</b>	<b>Cas Number</b>	<b>Normalised Breakthrough Time (minutes)</b>	<b>EN Class</b>
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	n/a
Chlorine Gas (>99.8 wt%)	7782-50-5	>540	6 of 6
Dichloromethane	75-09-02	9	n/a
Diethylamine	109-89-7	Immediate	n/a
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	n/a
Toluene	108-88-3	>540	6 of 6

\* For information on specific chemicals please contact Microgard or your distributor. 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.

<b>Microchem<sup>®</sup> 4000 fabric against chemical warfare agents**</b>	
Lewisite (L)	>06:00 <24:00
Mustard Agent (HD)	>24:00
Sarin (GB)	>24:00
VX	>24:00

\*\*Tests performed according to TNO test protocol. Contact Microgard<sup>®</sup> for full details



<b>Whole Suit Type Test Results</b>	
EN 14605: 2005 Type 3 (EN463 Jet Spray)	Pass
EN 14605: 2005 Type 4 (EN468 Spray)	Pass
EN 13928-1: 2004 Type 5 (Particle Test)	Pass (TIL = <6%)
EN 1073-2: 2002 (Radioactive Particulates)	Class 1
ISO 13935-2 Seam Strength	185.2N