

RSG Microporous LCP 200 vs Micromax NS (Lakeland)

FABRIC OVERVIEW		
Product:	RSG Microporous LCP 200	Micromax NS
Description	Microporous Laminate	Microporous PE Laminate
Basis Weight:	51 gsm	65 gsm
Composition	MP film/adhesive and SBPP	MP Film, glue and PP spunbond
Colour(s):	White	White, Orange, Green

PRODUCT DESIGN FEATURES		
Features	RSG Microporous LCP 200 standard pattern	Lakeland Super B style
Seam Design	Internal Overlocked with Bound and Sealed seam on legs and crotch	3 thread overlock stitch
3-Piece Hood	Yes	Yes
Elastication Style	Open stitched elasticsation	Open stitched elasticsation
Elasticated	Fully Elasticated	Fully Elasticated
Finger loops	Yes	No
Zip flap with Sealable Tape	Yes	No sealable tape
Zipper	2 way zipper	2 way zipper

Fabric Physical Performance according to EN 14325: 2004		
Test Method	RSG Microporous LCP 200	Micromax NS
	EN Class / Result	EN Class / Result
Abrasion Resistance EN530 Method 2	>100<500 cycles Class 2 of 6	>10<100 cycles Class 1 of 6
Flex ISO 7854 Method B	>15,000 < 40,000 Class 4 of 6	>15,000 < 40,000 Class 4 of 6
Tear Resistance EN ISO 9073-4 (MD)	50.2N Class 3 of 6	28.1N Class 2 of 6
Tear Resistance EN ISO 9073-4 (CD)	28.7N Class 2 of 6	19.4N Class 1 of 6
Tensile Strength ISO 13934-1 (MD)	88N Class 2 of 6	79.87N Class 2 of 6
Tensile Strength ISO 13934-1 (CD)	43N Class 1 of 6	34.0N Class 1 of 6
Puncture Resistance EN 863	8.0N Class 1 of 6	6.2N Class 1 of 6

Additional Physical Performance Data		
Test Method	RSG Microporous LCP 200	Micromax NS
	EN Class / Result	EN Class / Result
Resistance to water penetration BS EN 20811	24.3 kPa	>100cm/10kPa
EN 25978 Resistance to Blocking	No Blocking	No data
ISO 13938-1 Bursting Resistance	123 kPa Class 2 of 6	50.9 kPa Class 1 of 6

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EN ISO 6530 Fabric Repellence to Liquid Chemicals

Chemical	RSG Microporous LCP 200	Micromax NS
	EN Class / Result	EN Class / Result
30% Sulphuric Acid	96.7% Class 3 of 3	Class 3 of 3
10% Sodium Hydroxide	97.9% Class 3 of 3	Class 3 of 3
o-Xylene	97.3% Class 3 of 3	Class 2 of 3
Butan-1-ol	95.6% Class 3 of 3	Class 2 of 3

EN ISO 6530 Fabric Resistance to Penetration by Liquid Chemicals

Chemical	RSG Microporous LCP 200	Micromax NS
	EN Class / Result	EN Class / Result
30% Sulphuric Acid	0.0% Class 3 of 3	Class 3 of 3
10% Sodium Hydroxide	0.0% Class 3 of 3	Class 3 of 3
o-Xylene	0.0% Class 3 of 3	Class 3 of 3
Butan-1-ol	0.0% Class 3 of 3	Class 3 of 3

EN 14126: 2003 Fabric Barrier to Infective Agents

Test Method	RSG Microporous LCP 200		Micromax NS	
	Result	EN Class	Result	EN Class
ISO 16603 Resistance to penetration by blood/fluids under pressure. Synthetic blood method.	1.75kPa	Class 2 of 6	Claim PASS No data published	-
ISO 16604 Resistance to penetration by blood and other body fluids-borne pathogens. Phi-X174 method.	1.75kPa	Class 2 of 6	Claim PASS No data published	-
EN ISO 22610 Resistance to wet bacterial penetration (mechanical contact).	Penetration > 75 mins	Class 6 of 6	Claim PASS No data published	-
ISO/DIS 22611 Resistance to penetration by biologically contaminated aerosols.	Penetration Ratio Log 1.3	Class 1 of 3	Claim PASS No data published	-
ISO 22612 Resistance to penetration by dry microbial contaminated powders.	Penetration Log UFC 0.3	Class 3 of 3	Claim PASS No data published	-

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Whole Suit Test Results			
Test Method	Description	RSG Microporous LCP 200	Micromax NS
		Result	Result
EN ISO 13982-2	Type 5 Particulate Inward Leakage*	Ljmn, 82/90 ≤ 6.6% Ls, 8/10 ≤ 3.5% TIL = 2.2%	Ljmn, 82/90 ≤ 30% Ls, 8/10 ≤ 15%
EN 13034 EN ISO 17491-4:2008 Method A	Type 6 Reduced Spray Test*	PASS (2 suits with no leakage; ingress on 1 suit only, with stain area <2.5% of total permitted leakage area	PASS – No data
EN 1073-2	Inward leakage test for non-ventilated protective clothing against particulate radioactive contamination*	PASS Class 1 of 3 NPF 40 TIL _E = 4% TIL _A = 2.5%	PASS – No Class data
EN ISO 13935-2	Seam Strength	Stitched seam: 87.0N Class 3 of 6	88.8N Class 3 of 6
		Bound seam: 100.0N Class 3 of 6	

* Whole suit testing carried out with additional PPE; wrists, ankles, hood and zip flap closed and taped.

CE Approvals			
Directive 89/686/EEC	PPE Category	RSG Microporous LCP 200	Micromax NS
		Result	Result
EN ISO 13982-1: 2004 +A1:2010	Type 5 (Limited life, full body protection against airborne solid particulates)	YES	YES
EN 13034: 2005+A1: 2009	Type 6 (Limited life, full body limited chemical protective clothing against liquids)	YES	YES
EN 1073-2: 2002	Non-ventilated protective clothing against particulate radioactive contamination	YES	YES
EN 14126: 2003	Types 5-B, 6-B (Limited life, full body protective clothing against infective agents)	Fabric Pass BUT stitched seam not a barrier	YES (but stitched seam)
EN1149-5: 2008	For electrostatic dissipative protective clothing	PASS Half Decay t50 0.12s R = 1.1 x10 ⁹ 2.5 x 10 ⁸ Ω	PASS R= 1.08 x 10 ⁹ Ω