Benchmark | BMC-02

Limited Life Coverall - Type 5/6

Benchmark BMC-02 is a limited life coverall made from lightweight spun-bonded polypropylene with an outer breathable film. It is designed to protect workers from hazardous substances or sensitive products and processes from contamination.



FEATURES

- Microporous laminated material
- Elasticated waist
- Overlocked stitched seams
- Inset sleeve for ease of movement
- Available in white or blue
- Basis Weight: 55 gsm

CERTIFICATION

EN 13034:2005 + A1 2009	EN ISO 13982-1:2004 + A1:2010	EN 1073-2: 2002	EN 1149-5: 2018	EN 14126: 2003
Type 6	Type 5	TIL Class 2		Type 5-B; 6-B

US TESTING DATA

Property	Test Method	Typical Value
Basis Weight	ASTM D3776	1.6 oz/yd2
Tear Resistance—Trap Tear, MD	ASTM D5587	8 lbf
Tear Resistance—Trap Tear, CD	ASTM D5587	13 lbf
Breaking Strength—Grab, MD	ASTM D5034	25 lbf
Breaking Strength—Grab, CD	ASTM D5034	20 lbf
Hydrostatic Head	AATCC 127	190 cm

Tested to ASTM D257 and AATCC 76. Tested to and meets ASTM F1670 and F1671.

COLOURS AVAILABLE

White Blue Orange

SUITABLE APPLICATIONS

Protection against particulate hazards (Type 5) and or limited liquid splashes or sprays (Type 6) depending on the chemical toxicity and exposure conditions.

- Agriculture
- Biological Hazards
- Chemical Handling
- Clean Room
- Electronics
- Hazardous Material Handling
- Paint Spraying
- Printing

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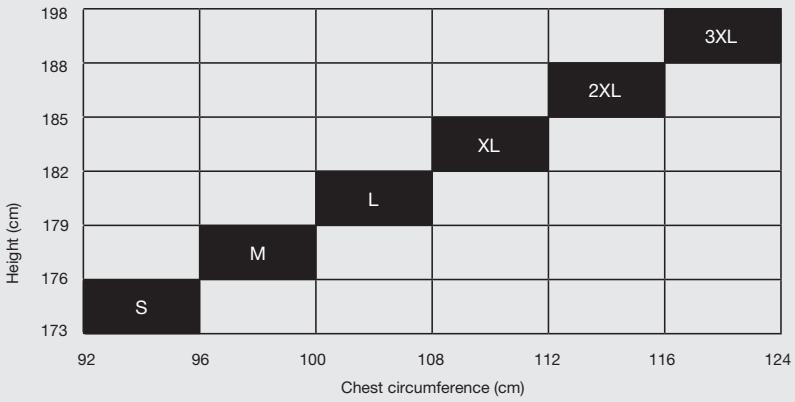
TECHNICAL SPECIFICATIONS

TEST ON WHOLE SUITS	RESULT	CLASSES
Resistance to liquid penetration Spray test type 6 (EN ISO 17491-4 met. A – EN 13034)		PASS
Resistance to aerosol penetration Inward leakage type 5 (EN ISO 13982-2 – EN ISO 13982)	Ljmn 82/90 ≤ 30% Ls 8/10 ≤ 15%	PASS
Nominal protection factor (EN ISO 13982-2 – EN 1073-2)	TIL_E %, TIL_A %, Fpn	Class 2
Practical performance tests (EN 1073-2)		PASS
Seams: strength (EN ISO 13935-2)	75-125 N	Class 3

ELECTROSTATIC PROPERTIES - COMPLIANCE AND RESPONSIBILITY
▪ Garments are anti-statically treated and comply to the electrostatic protection required by EN 1149-5, and must be used with compatible accessories and work practices to be effective.
▪ Electrostatic dissipative protective clothing to EN 1149-5 shall meet at least one of the following requirements. • Half Decay Time [t50] < 4s or Shielding Factor [S] > 0.2, tested according to EN 1149-3:2004, test method 2 (induction charging), or • A Surface Resistance of less than or equal to 2.5 x 109 Ω, on at least one surface, tested according to EN 1149-1.
▪ The person wearing the electrostatic dissipative protective clothing shall be properly earthed. The resistance between the person and the earth shall be less than 108 Ω, e.g. by wearing adequate footwear.
▪ Electrostatic dissipative protective clothing shall not be opened or removed whilst in the presence of flammable or explosive atmospheres or while handling flammable or explosive substances.
▪ Fasten the garment correctly, covering all non-complying materials. Where the garment is to be earthed through the skin, ensure that the cuffs are in contact with the skin at all times.
▪ Electrostatic dissipative clothing shall not be used in oxygen enriched atmospheres without the prior approval of the responsible safety engineer.
▪ The electrostatic dissipative performance of the electrostatic dissipative protective clothing can be affected by wear and tear, laundering and possible contamination.
▪ Electrostatic dissipative protective clothing shall permanently cover all non-complying materials during normal use, [including bending and movements].
▪ Not intended to protect against mains voltage.

TEST ON FABRIC	RESULT	CLASSIFICATION
Resistance to penetration to liquid (EN ISO 6530 – EN 13034)	H2SO4 30% <1%	Class 3
	NaOH 10% < 1%	Class 3
	o-xilene < 1%	Class 3
	Butan-1-ol < 1%	Class 3
Repellency to liquid (EN ISO 6530 – EN 13034)	H2SO4 30% > 95%	Class 3
	NaOH 10% > 95%	Class 3
	o-xilene 90-95%	Class 2
	Butan-1-ol 90-95%	Class 3
Abrasion Resistance (EN 530 - method 2)	10-100 cycles	Class 2
Trapezoidal tear resistance (EN ISO 9073-4)	20-40 N	Class 2
Tensile strength (EN ISO 13934-1)	30-60 N	Class 1
Puncture resistance (EN 863 - EN 1073-2)	10-50 N	Class 2
Flex cracking resistance (EN 7854)	> 100 000 c.	Class 6
Blocking resistance (EN 25978 - EN 1073-2)		Pass
Ignition and flammability (EN 13274-4 - EN 1073-2)		Pass
Electric surface resistance	≤ 2.5 x 10^9	Pass
Bursting strength (13938-1)	160-320 kPa	Pass
Resistance to penetration by blood-borne pathogens - phi-x174 bacteriophage test - ISO 16603/16604	20 kPa	Class 6
Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids - ISO 22610 (test microorganism: staphylococcus aureus)	t > 75	Class 6
Resistance to penetration by contaminated liquid aerosols - ISO DIS 22611 (test microorganism: staphylococcus aureus)	log > 5	Class 3
Resistance to penetration by contaminated solid particles - EN ISO 22612 (test microorganism: spores of Bacillus subtilis)	1 < log ufc ≤ 2	Class 3
pH (EN ISO 13688 – ISO 3071)	3.5 > pH > 9.5	Pass

SIZING Body Measurements



ORDERING INFORMATION

Item No.

	WHITE	BLUE
M	BMC00002AF	BMC00002DF
L	BMC00002AH	BMC00002DH
XL	BMC00002AJ	BMC00002DJ
XXL	BMC00002AL	BMC00002DL
XXXL	BMC00002AN	BMC00002DN

STORAGE AND MAINTENANCE

Benchmark BMC-02 is manufactured from materials made from polypropylene. These inert polymers are proven not to degraded within 10 years. Therefore a product shelf life of 10 years should be reasonable in correct storage conditions. It is advised to keep products stored in cool, dry areas where possible and away from direct heat and sunlight.

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EU Type-Examination Certificate, (Module B), in accordance with Annex V of Regulation (EU) 2016/425, and subsequent amendments, issued by: Centro Tessile Cotoniera & Abbigliamento S.p.A. (CENTROCOT) Piazza S Anna 2, 21052 Busto Arsizo (VA). [N.B. No. 0624].
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