



Product Specification

MICROCHEM by AlphaTec™ 68-3000 Series

Welded Seam Coveralls

PRODUCT NOMENCLATURE

Product Name: Microchem by AlphaTec Series 68-3000 Coveralls
 Style number: 68-3000 Welded Seam Series (see also below "Models within Series")

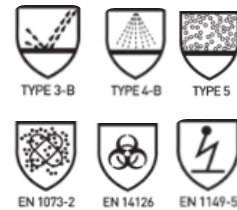
MODEL	SIZES	COLOR	DESCRIPTION
YE30-W-92-103-size	02-09 (S-5XL)	Yellow	Collar
YE30-W-92-111-size	02-09 (S-5XL)	Yellow	Hooded
YE30-W-92-121-size	02-09 (S-5XL)	Yellow	Hooded with attached gloves
YE30-W-92-122-size	02-09 (S-5XL)	Yellow	Hooded with attached socks/boot overlap
YE30-W-92-132-size	02-09 (S-5XL)	Yellow	Hooded with single zip, single sleeves

PRODUCT DESCRIPTION

Design: Coverall with double zip entry, no drip double cuffs and boot overflaps; elasticated wrists, ankles and waist, hoods are elasticated in applicable models.
 Garment material: 75 gsm multi layer barrier laminate (1.86 oz/yd²)
 Garment seams: Welded

OUTSTANDING CHARACTERISTICS

- ▶ 2-piece elasticated hood for respirator use
- ▶ Double zip system ensures a liquid tight seal and eliminates the need for taping
- ▶ Whole suit inward leakage testing ensures performance of the garment *system*, not just the fabric
- ▶ No-drip double cuffs and boot overflaps
- ▶ Elasticated wrists, ankles and waist provide optimized ergonomic fit for greater wearer comfort
- ▶ Anti static and silicone free



APPLICATIONS

Chemical processing, oil and petrochemical processing, industrial tank cleaning, food industry caustic clean-down, sewage treatment and purification, mining contract cleaning. Designed to protect against strong directional jets of chemicals (Type 3), saturation of chemicals (Type 4) and hazardous dusts (Type 5).

TECHNICAL DATA*

Fabric Physical Properties	Test Method	Result
Tensile strength (MD)	ASTM D5034/EN ISO 13934-1	44.0 lbs/109N, EN 14325 Class 2/6
Tensile strength (TD)	ASTM D5034/ EN ISO 13934-1	30.9 lbs/62N, EN 14325 Class 2/6
Tear resistance (MD)	ASTM D5733/EN ISO 9073-4	22.8 lbs/44N, EN 14325 Class 2/6
Tear resistance (TD)	ASTM D5733/EN ISO 9073-4	9.2 lbs/29N, EN 14325 Class 2/6
Burst strength	ASTM D3787/EN ISO 13938-1	135 lbs/90 kPa, Class 2/6
Flame spread	16 CFR §1610	Class 1
Abrasion	EN 530	500 cycles, EN 14325 Class 3/6
Flex cracking	EN ISO 7854	100,000 cycles, EN 14325 Class 6/6
Puncture resistance	ASTM D2582/EN 863	30.3N/10N, EN 14325 Class 2/6
Surface resistance @40% rh	AATCC 76	8.1 x 10 ⁹ ohms face, 3.5 x 10 ⁹ ohms back
Surface resistance @25% rh	AATCC 76	6.5 x 10 ¹⁰ ohms face, 5.7 x 10 ¹⁰ ohms back
Barrier Properties	Test Method	Result
Fabric hydrohead – resistance to water penetration	AATCC 127	>127

WHOLE SUIT TECHNICAL DATA*

Properties	Test Method	Result
Type 3 jet spray test	EN ISO 17491-3	Pass
Type 4 high level spray test	EN ISO 17491-4 Method B	Pass
Type 5 particle inward leakage	ISO 13982-2	L _{inn,82/90} < 30 %; L _{s,8/10} < 15 %
Barrier to radioactive particles	EN 1073-2	Class 1/3
Seam Strength	EN IO 13935-2	Class 4/6

* Test performed with wrist, cuff and hood taped to ancillary PPE

CHEMICAL RESISTANCE DATA (GARMENT MATERIAL)			
Chemical	CAS Number	EN ISO 6529 BT _{1.0ug/cm2/min} (min)	ASTM F739 BT _{0.1ug/cm2/min} (min)
Acetone*	67-64-1	30	5
Ammonia, anhydrous*	7664-41-7	-	1
Acetic acid, glacial (99.88 wt%)	64-19-7	>540	
Carbon disulfide*	75-15-0	-	Immediate
Chlorine gas*, 99.8%	7782-50-2	-	9
Chromium trioxide 50%	1333-82-0	-	>480
Dichloromethane* 99.9%	75-09-2	-	Immediate
Ethanolamine	141-43-5	-	>480
Ethyl acetate* 99.98%	141-78-6	-	Immediate
Ferric Chloride 45%	7705-08-0	-	>480
Furfural	98-01-1	-	>540
n-Hexane* 99.8%	110-54-3	-	Immediate
Hydrochloric acid 37%	7647-01-1	>540	193
Hydrofluoric acid 49%	7664-39-3	-	407
Hydrogen chloride gas* 99.0%	7647-01-0	-	Immediate
Hydrogen peroxide	7722-84-1	>480	
Mercury	7439-97-6	>480	>480
Methanol*	67-56-1	>480	Immediate
Perchloric acid 30%	7601-93-9	>540	>540
Phenol liquid at 45C	108-95-2	-	>480
Potassium hydroxide* 80%	1381-58-3	-	>480
Sodium hydroxide* 50%	1310-73-2	>540	>540
Sodium hypochlorite, 5%	7681-52-9	>480	>480
Sulfuric acid* 96%	7664-93-9	>540	>540

*Chemical Specified by ASTM F1001

Microchem by AlphaTec 68-3000 has been permeation tested against more than 120 chemicals and new chemicals are being added regularly. For an up to the minute list of chemicals and results please see the [Microchem by AlphaTec Chemical Permeation Guide](#) or visit

www.ansell.com/chemicalclothingpermeationguide

RESISTANCE TO INFECTIVE AGENTS AND BLOOD BORNE PATHOGENS		
Properties	Test Method	Result
Resistance to penetration by blood under pressure	ISO 16603	Pass to 20kPa
Resistance to penetration by blood borne pathogens	ASTM F1671/ISO 16604	Pass/Pass to 20kPa
Resistance to wet bacterial penetration	ISO 22610 mechanical contact	No penetration up to 75 min
Resistance to biologically contaminated aerosols	ISO/DIS 22611	No penetration
Resistance to microbial penetration	ISO 22612	No penetration

GUARANTEE

These products are manufactured to rigid specifications under strict conditions of process and quality control set forth by Ansell and are guaranteed against defect in workmanship or material and will be replaced or credited if returned for examination. This guarantee does not apply to deterioration caused by excessive wear, age, accident or prolonged exposure to strong solvents.

GENERAL INFORMATION

SHELF LIFE: 5 years shelf life in dry, cool, covered conditions.
MFR LOCATION: China

CREATED: October 2015
UPDATED:
REVISION #: 0

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