



Multi-hazard Chemical⁺ Body Protection



Customer Specification

AlphaTec®

Style# O47T111

4000 CFR -Model 111

PRODUCT NOMENCLATURE

Manufacturing Clothing Code: 4000-CFR MODEL 111
 Manufacturing Brand Name: AlphaTec
 Marketing Glove MRPN#(s) (S) OR47-T-92-111-02, (M) OR47-T-92-111-03 (L) OR47-T-92-111-04,
 (XL) OR47-T-92-111-05, (2XL) OR47-T-92-111-06, (3XL) OR47-T-92-111-07,
 (4XL) OR47-T-92-111-08, (5XL) OR47-T-92-111-09

PRODUCT DESCRIPTION

Product Classification Flame retardant multi-hazard liquid tight chemical barrier,
Hood Type: 2 piece hood
Elasticized: Hood, waist, wrists, ankles
Closure: Double zip closure
Fabric Weight: 215 gsm (6.34 oz/yd²)
Fabric Color: Orange
Seams: Stitched (Serged) and Taped
Packaging: 6 Pieces per case

OUTSTANDING CHARACTERISTICS & APPLICATIONS

- **Liquid Tight Chemical Protection**
Proven 8-hour permeation barrier against flammable and non-flammable chemicals including hydrocarbons and aggressive solvents
- **Visibility & Comfort**
Highly visible orange fabric combined with an optimized body fit, improving wearer comfort and safety.
- **Performance**
Stitched and taped seams for increased strength Double zip and flap design to limit ingress of chemical liquids.
- **Protection – Flame Retardant**
Flash fire protection. Limited flame spread EN ISO 14116 Index 1

Industries:

- Chemical
- Oil & Gas
- Petrochemical

Applications:

- Chemical handling
- Chemical processing and preparation
- Petroleum distribution and processing
- Repair and maintenance

Technical Data

Fabric Physical Properties	Test Method	Result
Tensile strength (MD)	ASTM D5034	59.22 lbs-f
Tensile strength (CD)	ASTM D5034	46.38 lbs-f
Tear resistance (MD)	ASTM D5733	19.5 lbs-f
Tear resistance (CD)	ASTM D5733	13.1 lbs-f
Burst strength	ASTM D3787-16	49 lbs
Puncture propagation tear resistance (MD)	ASTM D2582-16	92.6 N
Puncture propagation tear resistance (CD)	ASTM D2585-16	57.7 N
Hydrostatic pressure (water resistance)	AATCC 127 method A	>270 cm
Surface Resistivity (158F/40% RH)	AATCC 76	3.67x10 ¹⁰ ohms/sq
Flame Resistance Properties	Test Method	Result
Flame spread	16 CFR §1610	DNI, Class 1
Vertical flame resistance of textiles	ASTM D6413	< 1 sec after flame <6 in char length
Flame resistance	ASTM F1385-16	1 sec after flame, No afterglow, < 2in char length
Viral Penetration Resistance	Test Method	Result
Resistance of materials to blood-borne pathogens	ASTM F1671 Procedure B	Pass

CHEMICAL RESISTANCE DATA (GARMENT MATERIAL)		
Chemical (CAS Number)	EN ISO 6529 BT1.0 ug/cm²/min (min)	ASTM F739 BT0.1ug/cm²/min (min)
Acetone (67-64-1)	>480	>480
Acetonitrile (75-05-8)	>480	>480
Benzene (71-43-2)	>480	>480
1,3 – Butadiene (106-99-0)	>480	>480
Carbon Disulfide (75-15-0)	>480	>480
Dichloromethane (75-09-2)	>480	>480
Ethyl Acetate (141-78-6)	>480	>480
Ethylene Oxide (75-21-8)	>480	>480
n-Heptane (142-82-5)	>480	>480
n-Hexane (110-54-3)	>480	>480
Ethylene Oxide Gas (75-21-8)	>480	>480
Hydrofluoric Acid 49% w/w (7664-39-3)	>480	>480
Hydrofluoric Acid 70% w/w (7664-39-3)	>480	40
Methanol (67-56-1)	>480	53
Nitrobenzene (98-95-3)	>480	>480
Oleum 20% w/e Sulphur Trioxide (8014-95-7)	>480	>480
Oleum 30% w/e Sulphur Trioxide (8014-95-7)	>480	237
Propylene Oxide (75-56-9)	>480	>480
Sodium Hydroxide 50% w/w (1310-73-2)	>480	>480
Tetrahydrofuran (109-99-9)	40	31
Toluene (108-88-3)	>480	>480

Defects

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: Five (5) years in cool, covered conditions. Extended exposure to direct sunlight or excessive heat will result in discoloration and/or reduced service life.
MFG ORIGIN: China

REVISION LOG

ORIGINATOR: D'Lynn Chambers **DATE:** August 25, 2021

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