

**Specific Test List: Protective Clothing: Flame Resistance and Heat Resistance Tests**

Test	Sample Size	Performance
<b>VERTICAL FLAME (12 SECONDS)</b>		
Standards: ASTM D 6413, ASTM F 1506, ISO 11613 Annex D, NFPA 70E, NFPA 1971, NFPA 1975, NFPA 1976, NFPA 1977, NFPA 1981, NFPA 2112		
Initial test (as received)	30" x 30"	5 - 7 days
Test after laundering or cleaning	30" x 30"	(1)

<b>HEAT RESISTANCE @ 500 ° F</b>		
Standards: ISO 11613 Annex A, ISO 17493, NFPA 1971, NFPA 1975, NFPA 1976, NFPA 1977, NFPA 1981, NFPA 2112		
Initial test (as received)	48" x 48"	5 - 7 days
Test after laundering or cleaning	48" x 48"	(1)

<b>TPP (RADIANT &amp; CONDUCTIVE HEAT) 83 KW EXPOSURE</b>		
Standards: ISO 17492, NFPA 1971, NFPA 1975, NFPA 1976, NFPA 1977, NFPA 1981, NFPA 2112		
Initial test (as received)	36" x 36"	12 - 14 days
Test after laundering or cleaning	36" x 36"	(1)

<b>TPP (CONDUCTIVE HEAT ONLY) 83 KW EXPOSURE</b>		
Standards: ASTM D 4108, ISO 9151		
Initial test (as received)	36" x 36"	5 - 7 days
Test after laundering or cleaning	36" x 36"	(1)

The tests contained in this list are not to be considered all-inclusive. Other tests not listed might apply. In order to assure that you are considering the proper test, please contact us or complete a "Request for Quote" form.

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**Specific Test List: Protective Clothing: Flame Resistance and Heat Resistance Tests**

Test	Sample Size of Each Product	Performance
<b>PROTECTION AGAINST HEAT &amp; FLAME:</b>		
Standards: ISO 15025 (replaces EN 632)		
Initial test (as received)	36" x 36"	10 - 14 days
Test after laundering or cleaning	36" x 36"	(1)

<b>RADIANT HEAT EXPOSURE</b>		
Standards: ISO 6942		
Initial test (as received)	36" x 36"	(2)
Test after laundering or cleaning	36" x 36"	(2)

<b>MANIKIN</b>		
Standards: NFPA 1971, NFPA 1975, NFPA 1976, NFPA 1977, NFPA 1981, NFPA 2112	(3)	(3)

<b>ELECTRIC ARC</b>		
Standards: ASTM F 1959, ASTM F 1506	(4)	(4)

**LAUNDERING (WASHING & DRYING) - OR - DRY CLEANING CHARGES**

Most of the standards require an "Initial" test and a second test conducted after a prescribed number of launderings or dry cleanings have been performed. Each standard prescribes a different number of cycles. It is the client's responsibility to cite the appropriate refurbishing method and number of cycles required.

Notes:

- (1) Time is dependent upon the number of cycles required.
- (2) This test is not available from Govmark until June 2009.
- (3) This test is not available from Govmark. We refer you to:
  - (a) University of Alberta PCEFRF, B33 Human Ecology Bldg. Edmonton, AB T6g 2N1 Canada  
Contact: Dr. Jose A. Gonzalez, Tel. +1 780 492 3832, Fax +1 780 492 4111, Email: jose.gonzalez@ualberta.ca
  - (b) North Carolina State University, Contact: Don Thompson, Tel. +1 919 515 6781
- (4) This test is not available from Govmark. We refer you to:  
Kinectrics Inc., 800 Kipling Avenue, Toronto, ON M8Z 6C4, Canada  
Contact: Mr. Claude Maurice, Tel. +1 416 207 6305, email: claudemaurice@kinectrics.com

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