



ISO 9001:2008 Registered Manufacturer

Ultra C6

Material Content:	65% Oxidized Polyacrylonitrile (OPF)/ 35% artificial tri-blend
Material Construction:	1 x 1 Rib Knit
Material Weight:	6.5 oz / yd ² (+1 / -.5)
Material Color	Black (Standard)
Color Options Available	

FABRIC PERFORMANCE VALUES

THERMAL PROTECTIVE PERFORMANCE (TPP)

as received	29.8 cal/cm ²
after 5 washes	32.4 cal/cm ²

HOOD MATERIAL BURST STRENGTH

412 N

FLAME RESISTANCE TEST

After Flame	as received	.6 second
	after 5 washes	.6 second
Char Length (wales x courses)	as received	.4" x .4"
	after 5 washes	.4" x .4"

CLEANING SHRINKAGE RESISTANCE TEST

Hood Measurement	1%
Face Opening Measurement	4%

HEAT AND THERMAL SHRINKAGE RESISTANCE TEST

Hood Measurement	as received	0%
	after 5 washes	0%
Face Opening Measurement	as received	0%
	after 5 washes	0%

SEAM BREAKING STRENGTH TEST

589 N

MELT, DRIP, IGNITE, SEPARATE WHEN EXPOSED TO FLAME

None

ARC THERMAL PERFORMANCE VALUE (ATPV)

1 ply	10.6 cal/cm ² (HRC 2)
2 ply	31.5 cal/cm ² (HRC 3)

HEAT ATTENUATION FACTOR (HAF)

1 ply	79.1%
2 ply	92.1%

4th generation advanced CARBON technology
 3 elements needed for fire = Oxygen, Heat, and Fuel
 Without one element, a fire cannot start or continue
 When exposed to flame, C6 fibers expand,
 creating an Oxygen starved environment
 so fire cannot continue. Material is self extinguishing
 Inherently flame resistant (no harsh chemical treatments)
 Odor neutralizing, Anti-Static, Low Heat Conductivity
 Maintains performance values after laundering
 Finished to minimize shrinkage
 Rib knit allows for stretch and shape retention
 Majestic Fire Apparel is a vertical manufacturer
 Knitting our own fire retardant materials for over 16 years
 We knit, cut, sew, and ship - all from our location in PA
MADE IN USA

NFPA 70E PERFORMANCE SPECIFICATIONS OF ASTM F 1959/F 1959M-06ae1:

HRC Level 1 = minimum 5 cal/cm ² to 7 cal/cm ²
HRC Level 2 = minimum 8 cal/cm ² to 24 cal/cm ²
HRC Level 3 = minimum 25 cal/cm ² to 39 cal/cm ²
HRC Level 4 = minimum 40 cal/cm ² and over

Meets CAL-OSHA Requirements
 Passes Federal Test 191, Method 5903.2; CAL OSHA Sections 3406(d)
 Complies with OSHA Rule 29 CFR Part 1910, 269