



MADE WITH:

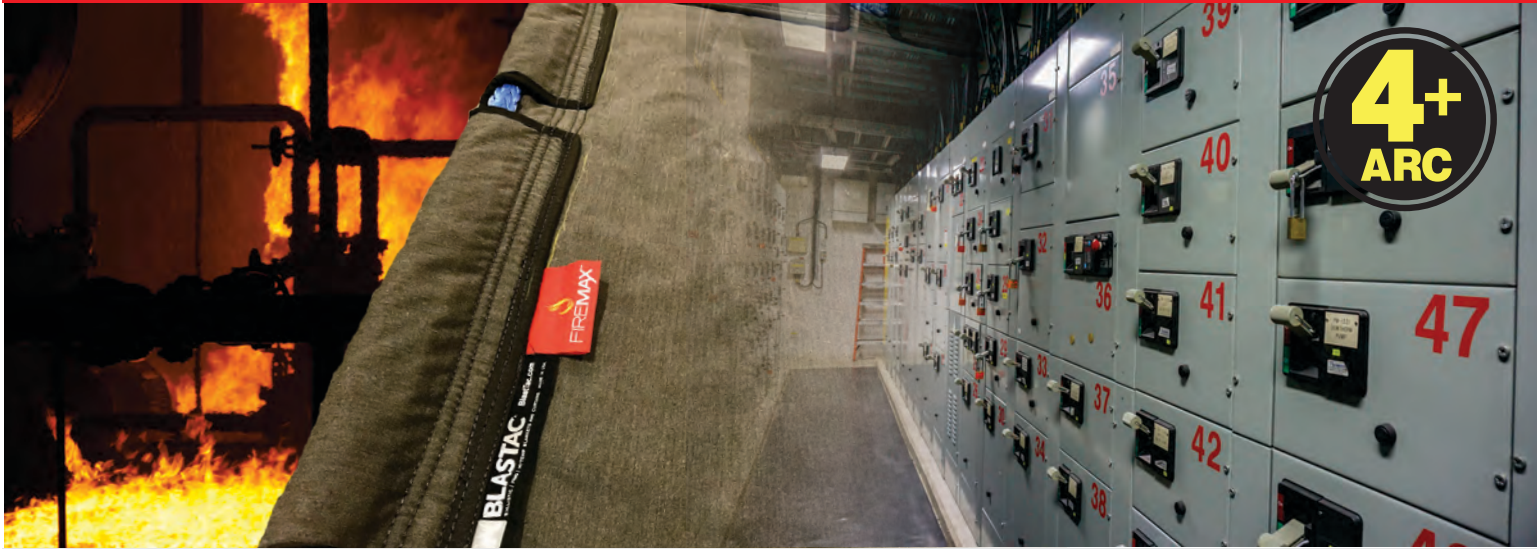
FIREMAX
engineered by: **CARBON X**



CA31FM

COMMERCIAL / INDUSTRIAL APPLICATIONS

Designed, Manufactured and Tested in USA 



ARC FLASH / BLAST / FIRE PROTECTION

BlastTac® is proud to introduce the CA31FM arc flash, fireproof, blast blankets and curtains. Engineered with FireMax® technology, the CA31FM provides arc flash 40kA+ protection along with fireproof, blast and frag protection. UL752 rated to Level 1, the CA31FM provides protection in electrical equipment, blast situations, fire applications, arc flash and other industrial work hazards.

Using FireMax® technology, CA31FM blankets and curtains are rated for Arc Flash Protection to CAT 4+ with Arc Flash Rating of 40kA+. CA31FM is truly non-flammable as they will not burn, melt, or ignite and will remarkably shed molten metal, certain chemicals, flammable liquids and other molten substances. The custom woven fabric is lightweight, flexible and odor resistant. With a patented EPIC encapsulated barrier of silicone, CA31FM blankets and curtains are water resistant and durable in harsh weather conditions. They are re-usable even after direct flame and extreme heat exposure. FireMax is tested and certified to ASTM and NFPA standards.

The CA31FM is effective against both deformable and non-deformable threats, which are more prevalent and lethal than bullets. CA31FM blankets and curtains are UL752 certified to level 1 in bullet resistance with the capability to absorb the impact of a 9mm bullet. The CA31FM is frag tested to: 2-GRAIN RCC, .22-CAL 17-GRAIN FSP V12.

Using 9865 Matrix technology™, the CA31FM absorbs the impact of ballistics and fragmentation while significantly reducing back-face trauma; it eliminates the need for layer counting, quilting and lamination. The Unidirectional ArmourCore™ 121 is flexible and versatile in extreme conditions.

BlastTac blast blankets and blast curtains are manufactured at Breton Industries, a leading U.S. Military Contractor established in 1949 and located in Amsterdam, NY. Our military experience is the driving force behind the careful design and manufacturing of the world's finest blast blankets and blast curtains.



LEVEL 1
BULLET RESISTANCE

Applications:

- Commercial
- Industrial
- Fire Protection
- Arc Flash Protection

Features:

- Manufactured by Breton Industries®
- Certified ISO 9001:2015
- Custom Made to Size
- Arc Flash Protection CAT 4+
- Arc Rating 40kA+
- Meets OSHA 1910.269(T)(7)
- Meets NFPA 70E
- Frag Protection
- FireMax Protection
- Ballistic Protection
- 9865 Core Matrix® Technology
- AmourCore® 121
- Water Repellent
- Excellent Durability
- Made In The USA

For More Information Contact: info@jbsengineering.co.uk **or Call Us at:** +44 (0) 1779 479742

CA31FM BALLISTIC TESTING: 9MM UL I - 3 SHOT SCREENING

Projectile	Application Stds	Avg. Vel. (ft/s)	Primary Location	Range to Target	Result
9MM	MIL-STD-662F	1254	7.5 ft	15 ft	P (did not go through)

CA31FM FRAG: PROTECTION BALLISTIC LIMIT TEST, V50 BL (P)

Projectile	Application Stds	Avg. Vel. (ft/s)	Primary Location	Range to Target	Result
17FSP	MIL-STD-662F	1467	7.5 ft	15 ft	P (did not go through)

POUR TEST (ASTM F955) CA31FM (Outer Casing)

Maximum calorimeter temperature rise during the first 30 seconds and time to second-degree burn after impact with molten iron

	Hazard	Max Temp. Rise (°C) After 30 Seconds		Time to Second-Degree Burn According to Stoll Curve (Seconds)
		Top Cal.	Bottom Cal.	
CA31FM	Iron	13.4	10.3	None

Average visual rating of outer layer fabric exposed to molten aluminum and iron

	Hazard	Charring	Shrinkage	Adherence	Perforation
CA31FM	Iron	3 Moderate charring	1 No shrinkage	1 None	1 None

THERMAL TEST (ASTM F1930-13) CA31FM (Outer Casing)

CA31FM	20.8	15.0
ASTM F1930-13	50	50

ANTI-STAT (EN 1149-2, Electrical Resistance)	WELDING SPLATTER (EN ISO 11611, Clause 6.8, Impact of Spatter)
Pass (Class 1 and 2)	Pass (Class 1 and 2)

CHEMICAL RESISTANCE (ASTM F739-12) CA31FM (Outer Casing) -

ASTM F739-12	15 minutes		
Hydrogen Peroxide 30%	21.6 minutes	Sodium Chlorate	> 480 minutes
Black Liquor	> 480 minutes	Sodium Hydroxide 50%	> 480 minutes
Green Liquor	242 minutes	Sulfuric Acid 93%	36.3 minutes
		White Liquor	60.7 minutes

ROPE MATERIAL / STRENGTH

DYNEEMA SK75: UHMPE 12 STRAND
 ELONGATION AT BREAK: 3 - 5%
 ABRASION RESISTANCE: SUPERIOR
 WATER ABSORPTION: NONE

Dia		Circ.		Weight		Min. Breaking Strength		
INCH	MM	INCH	MM	KGS/100M	LBS/100FT	MT	LBS.	AVG.
1/2	12	1 1/2	36	2.81	6.20	14.47	31,900	35,090
3/4	18	2 1/4	54	6.30	13.90	31.25	68,900	75,790

AFTER FLAME (CA31FM Outer Casing)

CA31FM	None/0 seconds
ASTM F1506	2 seconds or less
NFPA 1971 (2007)	2 seconds or less
NFPA 1975 (2009)	2 seconds or less
NFPA 1977 (2005)	2 seconds or less
NFPA 2112 (2007)	2 seconds or less

CHAR LENGTH (CA31FM Outer Casing)

CA31FM	8.382 mm (0.33")
ASTM F1506	6" or less
NFPA 1975 (2009)	6" or less
NFPA 1977 (2005)	4" or less
NFPA 2112 (2007)	4" or less

TPP (THERMAL PROTECTIVE PERFORMANCE) (cal/cm²) (CA31FM Outer Casing)

CA31FM	7.8
ASTM F1506	3.0 (spaced TPP of 6.0)

ATPV (cal/cm²) (CA31FM Blanket)

CA31FM	45+
NFPA 70E HRC 2	45+

ARC FLASH (CA31FM Blanket) (CATEGORY)

CA31FM	4+
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