

FireMaster[®] Marine Plus Faced Blanket

Product Data Sheet



FIREMASTER[®]

Product Description

FireMaster Marine Plus Faced Blanket is a highly insulating blanket especially developed for passive fire protection applications that are space or weight sensitive. FireMaster Marine Plus Faced Blankets are available in a variety of facing options designed for your application requirements.

FireMaster Marine Plus Blanket features an ultra-low-shot blanket, improving handleability and optimising thermal and physical properties. As a result of this technology, **FireMaster Marine Plus Blanket provides typical savings of 20% to 30% in applied weight.**

FireMaster Marine Plus Faced Blanket is comprehensively tested and approved for the fire protection and is suitable for use where fire insulation performance is required in the offshore, petrochemical and construction industries.

Applications—Marine

- 'A' class and IMO HSC steel, aluminium and FRP composite bulkhead and deck insulation in high speed craft
- Upgrading of fire performance of composite panels to meet IMO room corner test requirements
- H class and A class steel bulkhead and deck fire protection for ships and offshore platforms
- Hydrocarbon and Jet fire protection of process pipes and vessels
- Hydrocarbon fire protection of structural steelwork
- Cable Tray wrap enclosures in accordance with ASTM E1725

Applications—Building and Construction

- Fire resistant and smoke extract ducts in accordance with BS 476 : Part 24 : 1987
- Flexible Expansion joint
- Infill to fire doors and cladding panels
- Construction joints Infill
- Structural steelwork

Standard Facing Options:

FireMaster Alu 20R Blanket is a one sided application of scrim-reinforced aluminium foil. The blanket has good handling strength and aesthetic appearance when installed.

Features

- Colour : White blanket with silver coloured aluminium foil facing on one side
- Aluminium foil : 20 micron thick scrim reinforced foil and adhesive polymer
- Fire properties : Non-Combustible in accordance with IMO MSC 61(67) Annex 1 when tested to ISO 1182-1990(E) Material with Low Flame Spread in accordance with IMO MSC 61(67) Annex 1 when tested to IMO A653(16)
- Fire approvals : Approved Product under EU MED Directive

FireMaster Alu 40R Blanket is a covered non-reinforced aluminium foil on one side.

Features

- Colour : White blanket with silver coloured aluminium foil facing on one side
- Aluminium foil : 30 micron thick non-reinforced foil and sodium silicate adhesive
- Fire properties : Non-Combustible in accordance with IMO MSC 61(67) Annex 1 when tested to ISO 1182-1990(E)
- Fire approvals : Approved Product under EU MED Directive
- Foil peeling : 6N with FireMaster blanket as Force the substrate 4N with FireMaster Water Repellent blanket as the substrate

FireMaster Alu 45 Micron Blanket is for Duct Wrap System.

Features

- Fire Properties: Non-combustible in accordance with BS 476 Part4, Fire Propagation as per BS476 Part6, Surface Flame Spread as per bs476 Part7.
- Fire Approvals : As per BS 476 Part 24

FireMaster GC Blanket is a covered glass cloth applied on one side. The blanket is suitable for applications where aluminium foil would not be appropriate and provides a surface that can be painted if required.

Features

- Colour : White blanket with white glass cloth facing on one side
- Fire properties : Non-Combustible in accordance with IMO MSC 61(67) Annex 1 when tested to ISO 1182-1990(E)
- Fire approvals : Approved Product under EU MED Directive

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Standard Availability Dimensions and Densities

FireMaster Alu 20R Blanket: Non-Water Repellent Blanket as the core						
Density, kg/m ³	Thickness, mm					
	6	13	20	25	38	50
64						X
96					X	X
128				X	X	X
Roll length, m	21.6	14.64	9.76	7.32	4.88	3.66

FireMaster Alu 40R Blanket: Non-Water Repellent Blanket as the core						
Density, kg/m ³	Thickness, mm					
	6	13	20	25	38	50
64		X	X	X	X	X
96		X	X	X	X	X
128	X	X	X	X	X	X
Roll length, m	21.6	14.64	9.76	7.32	4.88	3.66

FireMaster Alu 40R Blanket: Water Repellent Blanket as the core					
Density, kg/m ³	Thickness, mm				
	13	20	25	38	50
96			X	X	X
128		X	X	X	X
Roll length, m	14.64	9.76	7.32	4.88	3.66

FireMaster Alu GC Blanket: Non-Water Repellent Blanket as the core						
Density, kg/m ³	Thickness, mm					
	6	13	20	25	38	50
64		X	X	X	X	X
96		X	X	X	X	X
128	X	X	X	X	X	X
Roll length, m	21.6	14.64	9.76	7.32	4.88	3.66

The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.

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FireMaster J-Fire Encapsulated Blanket

FireMaster J-Fire Encapsulated Blanket consists of FireMaster Marine Plus Blanket completely encapsulated in a strong, aluminium foil covering.

The encapsulating foil is a triple-ply laminate made with a fibreglass scrim adhered with a fire retardant thermosetting adhesive to an aluminized polyester face and an aluminium foil backing.

The encapsulation reduces the potential for water absorption by the blanket whilst ensuring that handling during installation is enhanced due to the high strength of the foil encapsulation.

FireMaster J-Fire Encapsulated Blanket has an operating temperature of -40°C to 149°C .

Properties	Method	Value
Permeability	ASTM E96-94	0.02 perms
Weight	ASTM D3776-96	61 g/m ² ($\pm 10\%$)
Thickness	ASTM D1777-96	0.152mm ($\pm 0.025\text{mm}$)
Tensile strength	ASTM D5035-95	Warp: 5.36 kg/cm Fill: 4.47kg/cm
Tear strength	ASTM D1424-96	Warp: 400g Fill: 400g
Flame spread, aluminium foil surface exposed to flame	UL 723	Flame spread: 5 Smoke developed: 0
Non Combustibility	BS 476 : Part 4 : 1970	Non-Combustible
Fire Propagation	BS 476 : Part 6 : 1989	Index < 12 Sub-index <6
Surface Spread of Flame	BS 476 : Part 7 : 1997	Class 1

Standard Availability Dimensions and Densities

Thickness, mm	15	25	35	38	40	45	50	60
Density, kg/m ³	48, 64, 70, 96, 128	48, 64, 70, 96, 128	64, 70	96, 128	64, 70	64	48, 64, 70	48, 64, 70, 80
Roll length, m	10	7.32	4.88	4.88	4.88	4.88	3.66	3.0

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