

Data sheet

ENGLISH

# FireMaster® Marine Plus faced blankets

## Description

**FireMaster® Marine Plus blanket is available with a variety of facings designed to give users greater flexibility in areas where surface protection for the blanket may be required.**

Manufactured exclusively from Morgan Thermal Ceramics Superwool® insulating fibres, FireMaster® Marine Plus blanket is exonerated from carcinogen classification under Nota Q of the European Union Directive 97/69/EC.

Three basic facing options are available.

## Applications

- '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
- Infill to fire doors and cladding panels
- Construction joints
- Hydrocarbon fire protection of structural steelwork



### FireMaster® Alu 20R blanket

This is FireMaster® Blanket with a factory-applied covering of scrim-reinforced aluminium foil, approximately 20 micron thick, on one side. 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 I when tested to ISO 1182-1990(E) Material with Low Flame Spread in accordance with IMO MSC 61(67) Annex I when tested to IMO A653(16)
- Fire approvals : Approved Product under EU MED Directive



### FireMaster® Alu 40R blanket

This is FireMaster® blanket with a factory-applied covering of non-reinforced aluminium foil, approximately 30 micron thick, on one side. The blanket is an approved non-combustible product.

#### 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 I 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® GC blanket

This is FireMaster® Marine Plus blanket with a factory-applied covering of 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 I when tested to ISO 1182-1990(E)
- Fire approvals : Approved Product under EU MED Directive

For general properties of FireMaster® Marine Plus blanket, please refer to the specific data sheet.

## Availability and packaging

Foil and glass cloth specifications may vary with manufacturing location but in all cases, the specific product offered is certified for low flame spread in accordance with IMO FTP code test procedures. For thickness and density range, roll sizes and packaging, please refer to your local Morgan Thermal Ceramics sales office.



Data sheet

# FireMaster® Marine Plus faced blankets

**Availability and packaging**

**FireMaster® Alu 40 Blanket**

With Standard (non-water repellent) blanket as the substrate

Density k/m <sup>3</sup>	6mm	13mm	20mm	25mm	38mm	50mm
64	No	Yes	Yes	Yes	Yes	Yes
96	No	Yes	Yes	Yes	Yes	Yes
128	Yes	Yes	Yes	Yes	Yes	Yes
Roll length	21.60m	14.64m	9.76m	7.32m	4.88m	3.66m

With water repellent blanket as the substrate

Density k/m <sup>3</sup>	13mm	20mm	25mm	38mm	50mm
96	No	No	Yes	Yes	Yes
128	No	Yes	Yes	Yes	Yes
Roll length	14.64m	9.76m	7.32m	4.88m	3.66m

**FireMaster® Alu 20R Blanket**

With Standard (non-water repellent) blanket as the substrate

Density k/m <sup>3</sup>	6mm	13mm	20mm	25mm	38mm	50mm
64	No	No	No	No	No	Yes
96	No	No	No	No	Yes	Yes
128	No	No	No	Yes	Yes	Yes
Roll length	21.60m	14.64m	9.76m	7.32m	4.88m	3.66m

**FireMaster® GC Blanket**

With Standard (non-water repellent) blanket as the substrate

Density k/m <sup>3</sup>	6mm	13mm	20mm	25mm	38mm	50mm
64	No	Yes	Yes	Yes	Yes	Yes
96	No	Yes	Yes	Yes	Yes	Yes
128	Yes	Yes	Yes	Yes	Yes	Yes
Roll length	21.60m	14.64m	9.76m	7.32m	4.88m	3.66m

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Whilst the values and application information in this datasheet are typical, they 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 - Thermal Ceramics.

**SUPERWOOL®** is a patented technology for high temperature insulation wools which have been developed to have a low bio persistence (information upon request). **SUPERWOOL®** products may be covered by one or more of the following patents, or their foreign equivalents:

**SUPERWOOL® PLUS** and **SUPERWOOL® HT** products are covered by patent numbers: US5714421 and US7470641, US7651965, US7875566, EP1544177 and EP1725503 respectively.

A list of foreign patent numbers is available upon request to Morgan Advanced Materials plc.

Morgan Advanced Materials plc Registered in England & Wales at Quadrant, 55-57 High Street, Windsor, Berkshire SL4 1LP UK Company No. 286773

## Data sheet

# FireMaster® J-Fire foil encapsulated blanket

## Description

FireMaster® J-Fire foil 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.

Operating temperature : -40°C to +149°C

## Key data for encapsulating foil

Property	Method	Value
Permeability	ASTM-E-96-94	0.02 Perms
Weight	ASTM-D-3776-96	61g/m <sup>2</sup> (±10%)
Thickness	ASTM-D-1777-96	0.152mm (±0.025mm)
Tensile strength	ASTM-D-5035-95	Warp - 5.36 kg/cm Fill - 4.47 kg/cm
Tear strength	ASTM-D-1424-96	Warp - 400g Fill - 400g
Flame spread (aluminium foil surface exposed to flame)	UL 723	Flame spread - 5 Smoke developed - 0

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