

# FireMaster® Marine Plus Blanket

## Description

Manufactured from FireMaster® Plus fibres, FireMaster® Marine Plus blanket is a highly insulating blanket especially developed for fire protection applications that are very space or weight sensitive.

Using advanced fibre production technology developed in recent years, the insulation performance of the blanket is optimised.

Compared to standard FireMaster® blanket, systems using FireMaster® Marine Blanket require either less thickness or lower density specifications to meet the same fire ratings, resulting in typical savings of 20% to 30% in applied weight.

No binder is used during manufacture therefore no smoke will be emitted in a fire. FireMaster® Marine Plus Blanket is very flexible, easily cut and simple to install.

Plus low bio-persistence fibres, FireMaster® Marine Blanket is exonerated from carcinogen classification under Nota Q of the European Union Directive 97/69 EC.

FireMaster® Marine Plus Blanket has been comprehensively tested and approved for the fire protection of steel, aluminium and composite structures used in the marine industry. It also offers substantial weight savings over traditionally-used fibre insulation systems. Plus it is suitable for use where high insulation performance in fires is required in the offshore, petrochemical and construction industries.

A wide range of thickness and densities are available. FireMaster® Marine Plus blankets can be supplied with aluminium foil or glass cloth facings on request.



## "R" (Resistance to Heat Flow) and "U" (1/R) Values

Thickness (mm)	48 kg/m <sup>3</sup>		*64 kg/m <sup>3</sup>	
	R	U	R	U
25	0.78	1.28	0.78	1.28
30	0.93	1.08	0.94	1.06
35	1.09	0.92	1.09	0.92
40	1.25	0.80	1.25	0.80
50	1.56	0.64	1.56	0.64
60	1.87	0.53	1.88	0.53

\*Values given for 64 kg/m<sup>3</sup> are also used for higher densities.

## Main Properties (23 °C / 50% Humidity)

Colour	White		
Density, kg/m <sup>3</sup>	48 - 128		
Thermal Conductivity, W/m.K	64 kg/m <sup>3</sup>	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>
200 °C	0.06	0.08	0.05
400 °C	0.11	0.10	0.08
600 °C	0.17	0.15	0.12
800 °C	0.26	0.21	0.18
1000 °C	0.38	0.29	0.25

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## Sound Transmission Loss

Application of FireMaster® Marine Plus Blanket with an insulation thickness of 45 mm to the steel layer of 5 mm.  
Test Method: ISO 140/3

	Hz	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	average
<b>64 kg/m<sup>3</sup></b>	dB	29.2	26.0	28.6	28.4	30.4	36.9	40.7	44.6	48.5	52.2	56.0	59.0	60.9	62.9	57.6	58.3	61.8	64.5	45
<b>128 kg/m<sup>3</sup></b>	dB	28.0	25.5	28.8	29.1	31.8	39.0	43.9	48.0	51.5	55.8	60.3	62.5	63.8	64.5	60.4	62.1	65.0	66.5	46



## Certificated FireMaster® Marine Plus Systems

Place of Application	System	EU MED
A60 Steel Deck	45 mm x 64 kg/m <sup>3</sup>	MED-B-3897
A60 Steel Deck (Fire insulated side)	45 mm x 64 kg/m <sup>3</sup>	MED-B-3898
A60 Aluminium Deck	50 mm x 70 kg/m <sup>3</sup>	MED-B-3892
A60 Aluminium Bulkhead (Fire insulated side)	50 mm x 70 kg/m <sup>3</sup>	MED-B-3893
A30 Aluminium Deck	40 mm x 70 kg/m <sup>3</sup>	MED-B-3895
A30 Aluminium Bulkhead (Fire insulated side)	45 mm x 64 kg/m <sup>3</sup>	MED-B-3896

The values given herein are typical average values obtained in accordance with standard test methods and subject to normal manufacturing variations. They are supplied as technical data and may change without notice. Contact our company to obtain detailed information.