



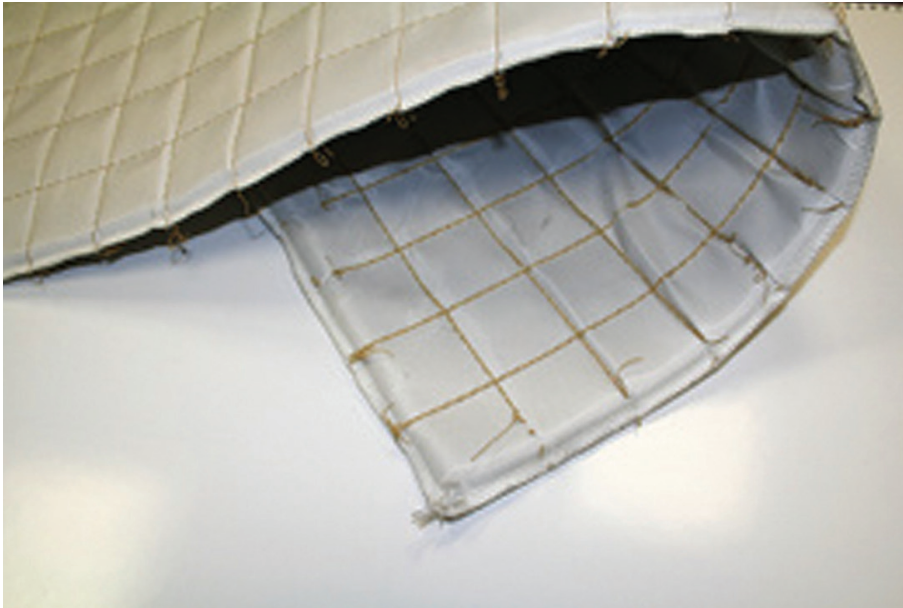
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PROMAGUARD® The Ultimate Lightweight Passive Fire Protection Product



www.promat-marine.com





Introduction

PROMAGUARD® is a new generation product used for passive fire protection and thermal insulation. Formulated with exclusive mineral and non-fibrous materials based on microporous and PROMAXON technologies, PROMAGUARD® provides efficient solutions for ships and yachts saving weight and reducing thickness by up to four times compared to traditional materials and solutions.

Advantages

- Non-combustible
- Very light weight
- Does not contain fibres
- Flexible & easy to install
- Excellent thermal conductivity

Applications

- A Class constructions
- Bulkheads & decks
- Trunks
- Thermal insulation on exhausted systems

Quality Assurance

Promat products are manufactured to stringent quality control systems to assure that our customers receive materials made to the highest standards.

Operating to these standards means that all activities, which have a bearing upon quality, are set out in written procedures.

Systematic and thorough checks are made on all materials and their usage. Test equipment is subjected to regular checks and is referred back to national standards.

The information given in this data sheet is based on actual tests and is believed to be typical of the product. No guarantee of results is implied however, since conditions of use are beyond our control.

Physical and technical properties

Finishing	Glass cloth (E-glass) or ALU2
Nominal density	240kg/m ³ (± 10%)
Stitching Pitch Size	50x50mm
Classification temperature	1000°C
Compressive strength	0.12N/mm ²
Thermal conductivity	
200°C	0.026W/mk
400°C	0.030W/mk
600°C	0.038W/mk
800°C	0.049W/mk
Specific Heat Capacity	
200°C	0.86kJ/kg.K
400°C	0.96kJ/kg.K
600°C	1.03kJ/kg.K
800°C	1.07kJ/kg.K
Reaction to Fire DIR 96/98/EC	Non-combustible material Certificate n° MED0300TE MED Item n° A.1/3.13 USCG category n° 164.109
Quality assurance Module D	MED n° MED0300QA

Standard sizes

Thickness (mm) ± 1mm	Length (mm) ± 3mm	Width (mm) ± 3mm
6-10-15	600	1200

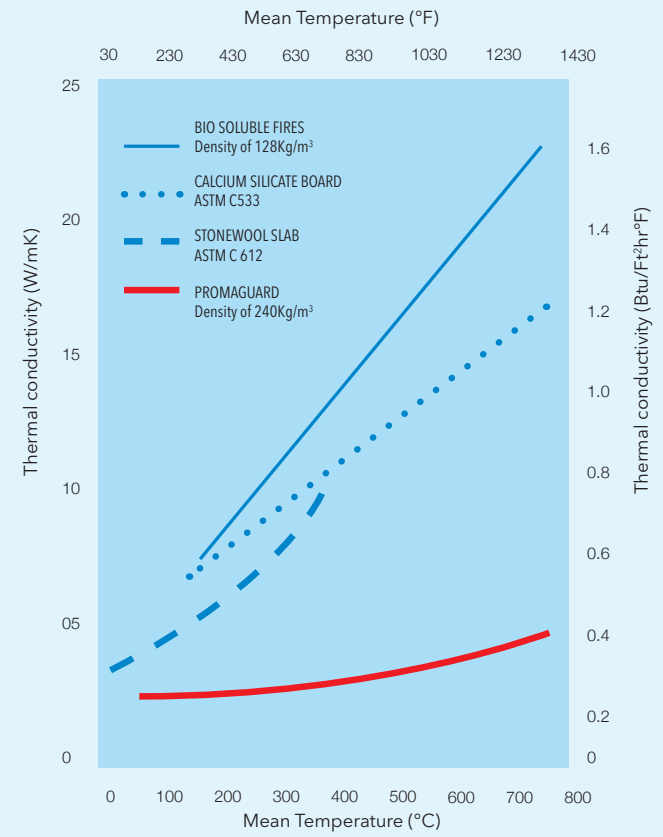
Thermal characteristics

PROMAGUARD® has the lowest thermal conductivity value compared to most traditional insulation products available on the market.

The chart shows that 10mm PROMAGUARD® produces (in relation to density and temperature) a reduction in the irradiated heat and an insulation that would be achieved by 50mm typical fibrous material.

Hence, PROMAGUARD®, with a weight of 2.4kg/m² for 10mm thickness, can provide the best performance and can achieve A60 Class fire protection.

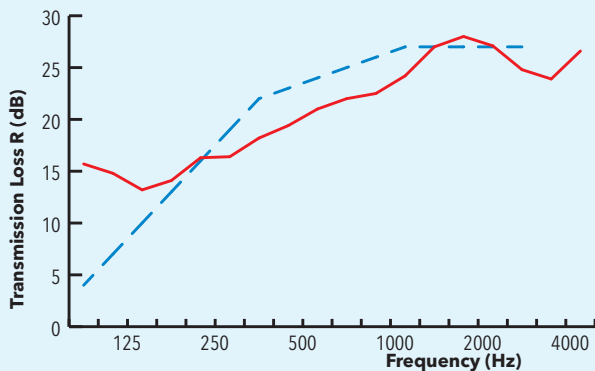
Thermal characteristics of PROMAGUARD®, thickness of 10mm



Acoustic performance

PROMAGUARD®-Alu, 10mm thickness

Area sample (m²): 2.88 - Weight (kg/m²): 2.40



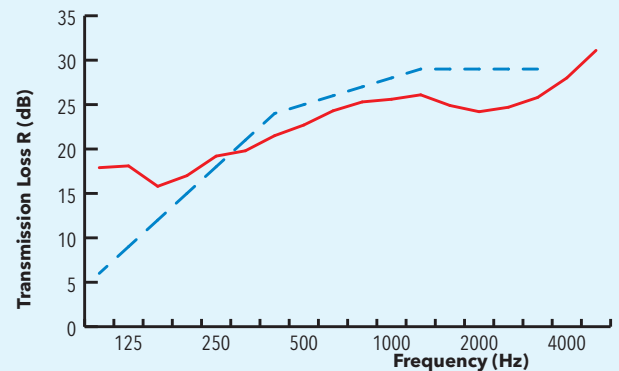
Frequency (Hz)	R (dB)	Frequency (Hz)	R (dB)
100	15.7	800	22.0
125	14.8	1000	22.5
160	13.2	1250	24.2
200	14.1	1600	27.0
250	16.3	2000	28.0
315	16.4	2500	27.1
400	18.2	3150	24.8
500	19.4	4000	23.9
630	21.0	5000	26.6

$R_w = 23dB$

Evaluation according to ISO curve 717-1

PROMAGUARD®-Alu, 15mm thickness

Area sample (m²): 2.88 - Weight (kg/m²): 3.60



Frequency (Hz)	R (dB)	Frequency (Hz)	R (dB)
100	17.9	800	25.3
125	18.1	1000	25.6
160	15.8	1250	26.1
200	17.0	1600	24.9
250	19.2	2000	24.2
315	19.8	2500	24.7
400	21.5	3150	25.8
500	22.7	4000	28.0
630	24.3	5000	31.1

$R_w = 25dB$

Evaluation according to ISO curve 717-1