PROMAGUARD

Thickness

6mm / 10mm / 15mm

Dimensions

1200 x 600mm

Variant

Aluminium / standard

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 that save weight and reduce thickness up to four times compared to traditional materials and solutions.

QUALITY ASSURANCE

Promat products are manufactured under strict quality control systems to ensure our customers receive materials made to the highest standards. Working according to these standards means that all activities that affect quality are recorded in written procedures. All materials and their use are systematically and thoroughly checked. Test equipment is regularly checked and referred back to national standards. The information in this data sheet is based on actual testing and is believed to be typical of the product. However, no guarantee of results is made as the conditions of use are beyond our control.

ADVANTAGES

- Non-combustible
- Very lightweight
- Contains no fibers
- Flexible and easy to install
- Excellent thermal conductivity

APPLICATIONS

- A Class construction
- Bulkheads and Decks
- Trunks
- Thermal insulation on exhaust systems

THERMAL CHARACTERISTICS

PROMAGUARD® has the lowest thermal conductivity compared to most traditional insulation products available on the market. The graph shows that 10 mm PROMAGUARD® (in relation to density and temperature) produces a reduction in the radiated heat and an insulation that would be achieved with 50 mm of typical fiber material. Therefore, PROMAGUARD®, weighing 2.4 kg / m2 for a thickness of 10 mm, can deliver the best performance and achieve A60 class fire protection.

Technical data		
Standard finishing		Glass cloth (E-Glass)* - ALU2
Stitching pitch size	mm	50 x 50
Classification temperature	°C	1000
Nominal density	kg/m³	240
Compressive strength (ASTM C165)	MPa = N/mm²	0.12
Thermal conductivity (ISO 8302, ASTM C177)		
200 °C	W/m K	0.026
400 °C	W/m K	0.030
600 °C	W/m K	0.038
800 °C	W/m K	0.049
Specific heat capacity		
200 °C	kJ/kg K	0.86
400 °C	kJ/kg K	0.96
600 °C	kJ/kg K	1.03
800 °C	kJ/kg K	1.07
Shrinkage		
1-sided 12h – 1000 °C	%	< 0.5
Full soak 24h – 1000 °C	%	< 6

* Special coverings and coatings are available on request.

Delivery sizes		
Length	mm	1200
Width	mm	600
Thickness	mm	6 / 8 / 10 / 12

Production tolerances		
Length	mm	± 3
Width	mm	± 3
Thickness	mm	± 1

PROMAGUARD
GALLERY