

APPLICATIONS

Machinable material for component manufacture for use as:

- Furnace back-up insulation
- Ladle insulation
- Data loggers
- OEM white goods
- Cooker pads element support



Promat PROMALIGHT® 240



Promat PROMALIGHT® 240FX

INTRODUCTION

Promat PROMALIGHT®-240 is a nanoporous insulation material for the most demanding thermal insulation applications where the largest temperature drop is required through the thinnest possible cross section with the lowest possible mass.

Performance and properties	Promat PROMALIGHT® 240	Promat PROMALIGHT® 240FX
Classification temperature	Microporous core: 950°C Glass cloth: 650°C	Microporous core: 950°C Glass cloth: 650°C
Nominal density (core)	200-280kg/m³	200-280kg/m³
Cloth nominal weight	220g/m²	220g/m²
Linear shrinkage at 900°C (EN 1094-6)	1.1%	1.1%
Specific heat capacity	1.05kJ/kgK	1.05kJ/kgK
Thermal conductivity (EN 12667)		
200°C	0.023W/mK	0.023W/mK
400°C	0.026W/mK	0.026W/mK
600°C	0.030W/mK	0.030W/mK
800°C	0.037W/mK	0.037W/mK
Typical composition (core)		
SiO ₂	70-90%	70-90%
SiC	10-20%	10-20%
CaO	2-5%	2-5%
Organic content	< 2% maximum	< 2% maximum

NOTE: All physical property values are averages based on standard production. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification, please contact Promat Technical Services Department.

Standard sizes	Promat PROMALIGHT® 240	Promat PROMALIGHT® 240FX
Thicknesses (mm)	10, 12, 15, 20, 25, 30, 40, 50	6, 8, 10, 12
Width (mm)	600	600
Length (mm)	1200	1200
Tolerance		
Thickness (mm)	±1.5	±1.5
Width/Length (mm)	±5.0	±5.0

HEALTH AND SAFETY

A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the board. The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.