

Promat

PROMALIGHT®-320

New generation nanoporous materials for the most arduous thermal insulation applications

APPLICATIONS

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



INTRODUCTION

PROMALIGHT® 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.

- Thermal conductivity starting at 0.023W/mK
- Best performing product in its class
- Available in a range of finishes, (plain, PE shrink wrapped, foil-faced, mica-faced)
- Machinable (HD grade for improved machining definition)

ADVANTAGES AND PROPERTIES

- Improved thermal performance reduces cross sectional thickness
- Lightweight thin panels
- Low thermal capacity reducing heat soak
- Easily machinable
- Chemically inert
- Thermally resistant to 950°C

TYPICAL PRODUCT PERFORMANCE

		320	320 HD
Colour		Grey	Grey
Classification temperature	°C	950	950
Density (nominal, air dry)	kg/m ³	220 - 330	320 - 360
Linear shrinkage at temperature to EN 1094-6	%	1.3 (900°C)	1.4 (900°C)
Combustibility to EN 13501-1		A1 (non-combustible)	A1 (non-combustible)
Cold compressive strength - maximum - 10% compression	N/mm ²	3.9	4.1
	N/mm ²	0.9	1.1
Flexural strength	N/mm ²	0.15	0.20
Specific heat capacity	kJ/kgK	1.05	1.05
Thermal conductivity according to EN 12667	200°C	0.023	0.023
	400°C	0.026	0.026
	600°C	0.030	0.030
	800°C	0.036	0.036
Typical composition (core)	SiO ₂	%	77 - 80
	SiC	%	15 - 20
Leachable chlorides		0.09	0.09

STANDARD SIZES

Length x width (mm)		1000 x 610
Thickness (mm)	320	5-50
	320HD	5-35
Tolerance (mm) (length, width & thickness)		+/- 1.5

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