

Ceracarton 100

Description

Ceracarton 100 is a thin board made from a mixture of Kaowool fibres, refractory fillers, inorganic and organic binders. It is a homogeneous, low density product with a good uniformity of thickness. Ceracarton 100 is an ideal material for the production of die cut pieces.

Type

Rigid sheets made from refractory fibre.

Maximum Continuous Use Temperature

1260°C

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Thermal Ceramics distributor for advice.

Features

- Available in very low thicknesses
- Low dust product
- Easy to cut by stamping
- Good thickness tolerances
- Very low thermal conductivity
- Flame resistant
- Low heat storage

Applications

- Lining of combustion chambers for gas boilers
- Die cut gaskets
- Die cut pieces for domestic appliances
- Thermal barriers

Main properties		
Maximum continuous use temperature	°C	1260
Properties Measured at Ambient Conditions (23°C/50% RH)		
Colour		white/tan
Density	kg/m ³	250-320
Modulus of rupture	MPa	1.0
Compressive stress at 10% relative deformation	MPa	0.2
High Temperature Performance		
Loss on ignition after 2 hours heating at 800°C	%	4-8
Permanent linear shrinkage after 2 hours isothermal heating at 1260°C	%	<4
Thermal conductivity (ASTM C-201) at mean temperature of:		
300°C	W/m.K	0.08
400°C	W/m.K	0.09
500°C	W/m.K	0.10
600°C	W/m.K	0.11
Chemical Composition		
SiO ₂	%	50-62
Al ₂ O ₃	%	30-47
ZrO ₂	%	0-18

www.morganthermalceramics.com

Europe: +44 (0) 151 334 4030 / marketing.tc@morganplc.com

North America: +1 (0) 706 796 4200 / northamerica.tc@morganplc.com

South America: +54 (11) 4373 4439 / marketing.tc@morganplc.com

Asia: +65 (0) 6595 0000 / asia.mc@morganplc.com

Ceracarton 100

Availability and Packaging

Ceracarton 100 is packed in cartons or on pallets which are shrink wrapped with recyclable plastic.

Standard Dimensions mm	Board	
	per carton	per pallet
1000 x 500 x 3	○	○
1000 x 500 x 4	○	○
1000 x 500 x 5	○	○
1000 x 500 x 6	○	○

In addition to the standard range, other dimensions and thicknesses can be supplied on request.

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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