



Minimog™ Boards & Shapes

Product Data Sheet

Product Description

Minimog Boards and Shapes 1260 and 1400 are rigid, self-supporting fiber insulation boards and shapes designed for use in applications requiring higher rigidity than blanket forms.

The Minimog Boards and Shapes are manufactured by a vacuum forming technology providing for a wide range of dimensional choices, with an excellent homogeneity throughout the forming process of the boards and shapes.

Customers are provided with optimized, engineered solutions from our wide range of formulations.

These Boards and Shapes formulations contain a small amount of organic binder to improve the cold handling strength and this burns out on first firing at approximately 200-300°C.

Features

- Rigid, lightweight, hot face insulation
- Resistant to particulate and hot gas erosion
- Engineered formulations for high strength and temperature resistance
- Low thermal conductivity and heat storage
- Highly resistant to thermal shock
- Resists most chemical attacks
- Non-wetting to molten aluminium and other non-ferrous metals
- Easy to cut, handle and install

Applications

- Furnace and kiln hot face linings
- Back-up insulation for monolithic and brick refractories
- Ladle liners and covers
- Aluminum trough liners and special shapes
- Riser sleeves, tap out cones and hot tops
- Combustion chambers for boilers and heaters
- Hot gas duct, flue and chimney liners
- Heat processing insulation
- Bullnose tiles
- Burner blocks
- Glass regenerator, tank side, end wall and port neck insulation
- Back-up insulation in steel ladle, tundishes, and torpedo cars

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Properties	Minimog 1260 Board	Minimog 1260 Shapes	Minimog 1400 Shapes
Region of Manufacture	Asia	Asia	Asia
Colour	White to Tan	White	White
Classification Temperature, °C (°F), ISO 10635	1100 (2012)	1260 (2300)	1400 (2552)
Continuous Use Temperature, °C (°F)	1260 (2300)	1100 (2012)	1300 (2372)
Density, kg/m ³ (pcf), ASTM C612-14	260 (16)	260 (16.2)	260 (16.2)
Compressive strength, 10% deformation, MPa (psi), ASTM C165	0.1 (14.5)	-	-
Permanent Linear Shrinkage, %, ISO 10635			
1200°C (2192°F)	3.5	3.5	-
1400°C (2552°F)	-	-	3.5
Modulus of Rupture, Unfired, MPa (psi), ASTM C165	0.5 (72.5)	-	-
Loss of Ignition, LOI, %, EN 1094-1			
after 2 hours heating @ 800°C (1472°F)	4	4	4
Chemical Analysis, %			
Alumina, Al ₂ O ₃	40	40	29
Silica, SiO ₂	60	60	55
Zirconia, ZrO ₂	-	-	10

Product Availability

Minimog Boards and Shapes 1260 and 1400 are manufactured in Asia. They are available globally. Please contact your regional Morgan Advanced Materials - Thermal Ceramics representative to support providing specific packaging availability for your local business needs.

The product(s) represented are intended for industrial refractory applications. The values and application information in this datasheet are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product, and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials.