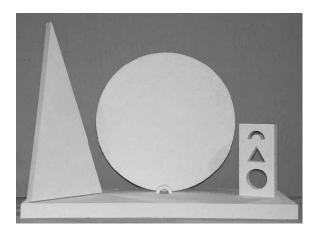


## Minimox™ Boards and **Shapes**

Product Information



Minimox is a new vacuum formed refractory specifically engineered to meet the demand for a cost-effective, rigid, smokeless and odorless high temperature insulation. Previously, customers had to choose between a weak, burned-out starch-bonded board, or a more costly, wholly inorganic silica-bonded board.

Minimox 1300 Boards and Shapes are made from a blend of Thermal Ceramics high purity fibres and ultra-low organic binders, offering excellent physical characteristics which allow for clean machining and easy handling during installation. Thermal properties are also enhanced, exceeding our standard Kaowool® M Board, allowing for higher temperature applications.

## **Applications**

- Kilns
- Space-heaters
- Water-heaters
- High temperature residential products

Physical Properties	Minimox 1300	
Color	cream	
Density, kg/m³ (pcf)	304 (19)	
Melting Point, °C (°F)	1760 (3200)	
Maximum Temperature, °C (°F)	1315 (2400)	
Continuous Use Limit, °C (°F)	1150 (2100)	
Modulus of Rupture, MPa (psi)	0.62-0.75 (90-110)	
Compressive Strength, MPa (psi)		
@ 5% deformation	0.10-0.14 (15-20)	
@ 10% deformation	0.14-0.17 (20-25)	
Shore Hardness, ASTM D2240	45-60	
Linear Shrinkage, %, 24 hours		
@ 800°C (1472°F)	0.2	
@ 1000°C (1832°F)	1.8	
@ 1100°C (2012°F)	2.3	
Chemical Analysis, % Weight basis	after firing	
Alumina, Al2O3	40	
Silica, SiO2	53	
Magnesium Oxide, MgO	1.5	
Calcium Oxide, CaO	3	
Other	<2.5	
Loss On Ignition	3	
Thermal Conductivity, W/mK (BTU•in/hrs•ft²•F)		

300°C (572°F)	0.08 (0.62)
500C (932F)	0.14 (0.79)
800°C (1472°F)	0.20 (1.22)
1100°C (2012°F)	0.29 (1.76)

The values given herein are typical average 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.

Thermal Ceramics is a trademark of The Morgan Crucible Company plc. Kaowool and Minimox are tradenames of Thermal Ceramics.

## **Marketing Communications Offices** Thermal Ceramics Americas

T: (706) 796 4200 F: (706) 560 5841 Thermal Ceramics Asia Pacific T: +65 6733 6068 F: +65 6733 3498 Thermal Ceramics Europe

T: +44 (0) 151 334 4030 F: +44 (0) 151 334 1684

## North America - Sales Offices Canada

T: +1 (905) 335 3414 F: +1 (905) 335 5145 Mexico T: +52 (555) 576 6622

F: +52 (555) 576 3060 United States of America Eastern Region T: +1 (800) 338 9284 F: +1 (866) 785 2764

Western Region T: +1 (866) 785 2738 F: +1 (866) 785 2760

South America - Sales Offices Argentina

T: +54 (11) 4373 4439 F: +54 (11) 4372 3331 Brazil T: +55 (21) 2418 1366 F: +55 (21) 2418 1205

Chile

T: +56 (2) 854 1064 F: +56 (2) 854 1952 Colombia

T: +57 (2) 2282935/2282803/2282799 F: +57 (2) 2282935/2282803/23722085

Guatemala T: +50 (2) 4733 295/6 F: +50 (2) 4730 601 Venezuela T: +58 (241) 878 3164 F: +58 (241) 878 6712