



# ENVIRONMENTAL PROTECTION PRODUCTS AND THERMAL BARRIERS For A Green World

## THERMOSEAL® M22 DRY MOLDABLE

THERMOSEAL® M22 DRY MOLDABLE is a high-temperature resistant refractory material designed for a wide variety of applications including cathode bar sealing and molten aluminum transfer trough linings, as well as fireplace applications and furnace repair. THERMOSEAL® M22 DRY MOLDABLE can be used to shape fireplace logs and lightweight refractory shapes, used for refractory lining repair, or layered over existing refractory as surface coating.

### AVERAGE PHYSICAL PROPERTIES

Material	Moldable
Consistency	Dry Mix
Appearance	Dry Fibers
Color	Off-White
Use Limit	2300°F • 1260°C
Linear shrinkage, %, 24 hours	3 @ 2000°F • 1093°C
Wet Density, lbs/ft <sup>3</sup>	76 (+/- 5%)
Dry Density, lbs/ft <sup>3</sup>	23 @ 250°F • 120°C
Fired Density, lbs/ft <sup>3</sup>	21 @ 2300°F • 1260°C
Solid Content, %	100
Silica, % fired	52
Alumina, % fired	45

Tolerance is +/- 10% unless otherwise stated.

**PREPARATION** THERMOSEAL® M22 DRY MOLDABLE can be custom formulated to meet specific application criteria. Mix with water in a ratio of one part dry moldable to two parts water in weight, and agitating until the consistency resembles smooth putty. Small batches can be mixed by hand, however a cement or paddle mixer is recommended for large batches. Overmixing is not recommended.

**USES** Trough linings for molten metal transfer, high temperature sealing and coating, light weight refractory shape manufacture, trough coating and patching and furnace patching.

The technical data presented herein are indicative of representative properties and are intended as a specification guide only. No warranties are expressed or implied as application conditions are beyond our control.

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## THE FINAL BARRIER AGAINST ABRASION, CHEMICALS AND HEAT

### THERMOSEAL® M22 DRY MOLDABLE, continued

**APPLICATION** THERMOSEAL® M22 DRY MOLDABLE can be applied with the fingers, trowels, or spatulas, and is easily formed to any contour or readily pressed into cracks and smoothed out. Water wet the tool to facilitate smoothing and contouring. Drying consists of removing the liquid portion of the mix usually by use of an external heat source at 200 - 220°F • 93 - 104°C for approximately six hours per inch of thickness.

**PACKAGING** - 50 pound bags, special packaging available upon request.

**SHELF LIFE AND STORAGE** THERMOSEAL M22 DRY MOLDABLE can be stored for up to 12 months if kept unopened in cool, dry conditions.

**HANDLING INFORMATION** A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures.

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