

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

Foundry Service & Supplies, Inc.

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Telephone: (562) 945-6511
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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

KAOWOOL® MOLDABLE

KAOWOOL® CERAMIC FIBER

KAOWOOL® MOLDABLE

- High-temperature putty
- Ready to use
- Easy to apply
- Air dries and hardens
- Regular and sticky version (SV)

Kaowool Moldable is a mixture of ceramic fiber, silica binders, and fillers which produces an insulating product with a sticky consistency. This type of mix is ideal for applications such as penetration seals, metal stud protection (as in ceramic cone anchors), and for patching refractory cracks and fissures. The temperature of Kaowool Moldable and any surface to which it is to be applied should be 70°F (20°C) or above to ensure proper adhesion.

Drying is possible at room temperature; but depending on thickness, may require an extended period of time. Heated, forced air drying is recommended. This may be safely accomplished at any internal temperature below 212°F. Ventilation should be provided during drying to exhaust organic fumes resulting from vaporization of certain organic agents.

Physical Properties

Color	off-white
Maximum temperature rating, °F	2300
Melting point, °F	3200
Percent solids	55
Dried density, pcf	47
Dried modulus of rupture, psi	311
Hot gas erosion resistance, ft/sec.	>200
Linear shrinkage (%)	
drying 220°F, 24 hours	0.2
fired 2000°F, 5 hours	3.0
pH	9 - 10



Chemical Analysis

(Nominal, % weight basis after firing)

Alumina	Al ₂ O ₃	24
Silica	SiO ₂	65
Other		11

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Standard Sizes

1 gallon can.....	10 lb
5 gallon can.....	50 lb
32 tubes/case.....	24 lb
(11 ³ / ₄ oz. tube)	

Typical Applications

- Metal stud protection
- Patching mix for ceramic fiber and refractory products
- Trough linings for aluminum and other non-ferrous metals
- Patching around burner blocks

Installation Information

Kaowool Moldable may be installed with plastic gloves, trowels, spatulas, or a caulking gun. It is easily smoothed to the desired contour by water-wetting the forming tool and molding to shape. Excessive wetting will increase drying shrinkage.

Drying and Firing

Drying and firing conditions are dependent on the mass of Kaowool Moldable. If the mass is small, i.e., less than 1 pound ($1/2$ kg), it can be fired to its use temperature immediately without damage.

For large masses, the recommended practice is to force dry at 200°F - 300°F with a major uncovered surface exposed and adequate ventilation provided. Generally overnight drying is sufficient for thicknesses 1" - 2" (25 - 51 mm).

NOTE: Cans should be kept sealed to avoid hardening. Kaowool Moldable will be damaged if allowed to freeze.