

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

Kaowool® Rigidizer

Product Information



Kaowool Rigidizer is a colloidal silica compound for treating surfaces of Kaowool ceramic fiber products to provide a degree of surface hardness and resistance to erosion. Kaowool Rigidizer is stabilized against freezing during exposure to cold; however, freezing should be avoided.

Features

- Increases surface hardness and resistance to erosion
- Easily applied by brushing or spraying
- Freeze resistant

Applications

- Surface coating for Kaowool ceramic fiber blanket exposed to high velocity gases
- Adhesive for use in making composites and laminates
- Surface treatment for Kaowool vacuum formed shapes to increase surface hardness

Physical Properties

Color	clear
Solid content, % silica (approx)	28 - 29
Weight per gallon, lb (kg) (approx)	10 (4.5)
Nominal density, (wet), pcf (kg/m ³) (approx)	75 (1202)
Maximum temperature rating, °F (°C)	2300 (1260)
Freezing temperature, °F (°C)	28 (-2)
Viscosity, centipoises @ 25°C	4
Specific gravity @ 25°C	1.203
pH	9.7

Standard Sizes

Can	1 gallon
Pail	5 gallon
Drum	55 gallon

Installation Information

Kaowool Rigidizer is applied by brushing, dipping, rolling, and spraying. Suitable respiratory protection and ventilation are required when applied by spraying.

Materials to be rigidized should be free of all grease and oil. Kaowool Rigidizer receives its bonding action from the removal of physical water. Bonding may be accelerated by heating or over drying. Curing is a function of the size of the shape and its geometry.

An application rate of one gallon per 25 square feet (7.6 m²) of ceramic fiber surface will render a hard surface without completely rigidizing the interior of the ceramic fiber body.