



## Kaowool® Rigidizer



### Product Description

Kaowool Rigidizer is a colloidal silica compound for treating surfaces of 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.

### Handling

Kaowool Rigidizer must be protected from freezing. Normal shelf life is twelve months in unopened containers that have been properly stored.

### 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 oven 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 m<sup>2</sup>) of ceramic fiber surface will render a hard surface without completely rigidizing the interior of the ceramic fiber body.

### Features

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

### Applications

- Surface coating for ceramic fiber blanket and modules exposed to high velocity gases
- Surface treatment for vacuum formed fiber shapes to increase surface hardness

### Physical Properties

	Kaowool Rigidizer
Color	clear
Solid Content, % silica	28 - 29
Weight per Gallon, lb (kg)	10 (4.5)
Density, (wet), pcf (kg/m <sup>3</sup> )	75 (1202)
Maximum Temperature Rating, °F (°C)	2300 (1260)
Freezing Temperature, °F (°C)	28 (-2)
Viscosity, centipoises @ 25°C	4
Specific Gravity @ 25°C	1.20
pH	9.7
Shelf Life, months <sup>1</sup>	12

### Product Availability

1 gallon and 5 gallon pails  
55 gallon drum

1. Time period given is based on materials in unopened containers following proper storage procedures - wet products protected from freezing, dry products protected from water.

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.