

FUSED SILICA  
HOT PRESS PLATENS  
CASTABLE CERAMICS  
FIRED SHAPES  
AEROSPACE TOOLING

# Foundry Service & Supplies, Inc.

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

## KAOWOOL® WET FELT

KAOWOOL® CERAMIC FIBER

### KAOWOOL® WET FELT

- Highly efficient insulator
- Good green strength and may be formed or molded
- Completely inorganic

Thermal Ceramics Kaowool Wet Felt is manufactured by combining Kaowool ceramic fiber with an inorganic bonding agent. It is very pliable with good green strength. Wet Felt may be cut into any size or shape, or it may be formed or molded. It will conform to any surface or contour. When dried or fired, it becomes a lightweight resilient insulator which can be sawed, cut, or sanded. It will not crack or spall or be wet by molten aluminum. It may be used in temperatures up to 2300°F.

Kaowool Wet Felt is a highly efficient insulator. Its longer fibers give it the high tensile strength and resiliency to withstand vibration and physical abuse. Kaowool Wet Felt has low thermal conductivity, low heat storage, and is extremely resistant to thermal shock.

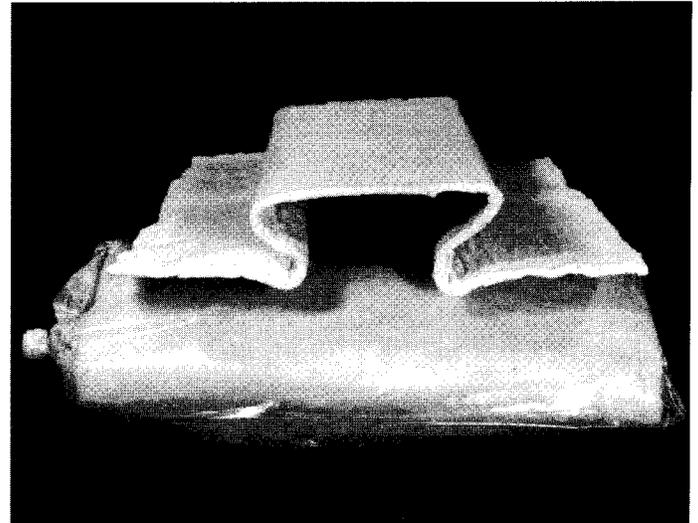
### Physical Properties

Color .....	white to off-white
Density, pcf .....	24
Use limit, up to °F .....	2300
Melting point, °F .....	3200
Modulus of rupture, psi (dry) .....	115
Air permeability, ft <sup>3</sup> /min	
@ 2 in. H <sub>2</sub> O .....	3
Linear shrinkage, %	
after 24 hrs. @ 1800°F .....	1.9
after 24 hrs. @ 2100°F .....	3.1

### Chemical Analysis

(% weight basis after firing)

Alumina .....	Al <sub>2</sub> O <sub>3</sub> .....	38
Silica .....	SiO <sub>2</sub> .....	60
Other .....		2



### Some of the many uses of Wet Felt.

A small amount can be rolled up and packed in a hole; e.g., to protect the anchor of an Element Hanger Module. It can be torn apart by the handful to pack recesses in brick. It can also be wrapped around a cardboard tube to make special sizes and shapes. Our incomparable Wet Felt is doing unique insulating jobs all over the U.S. such as:

- Wrapping exhaust manifolds in marine engines
- Wrapping fuel injector nozzles in solid fuel fired kilns
- Lining combustion duct work in incinerators and boilers
- Lining hot tuyers in upcomers of blast furnaces

### Need Wet Felt custom-made?

Wet Felt can be formed from fibers and fiber blends to produce finished material with special characteristics. Alumina fibers or other ceramic fibers can be blended to customize Wet Felt to meet your special requirements.