



Features

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

Applications

- Line trough and areas contacted with molten aluminum
- Interior of dryers
- Curved areas in ovens
- Insulation for pipe wrap

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.

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.

Type

Refractory Ceramic Fiber

Maximum Temperature Rating

2300°F (1260°C)

Physical Characteristics

Color white to off-white

Density, pcf (kg/m³) 24 (385)

Standard sizes

Thickness in (cm)	Sheets in (cm)	Sq.Ft. per Carton (m ²)
1/4 (0.625)	24 x 36 (60 x 90)	48 (14.5)
1/2 (1.25)	24 x 36 (60 x 90)	24 (7.3)
3/4 (1.875)	24 x 36 (60 x 90)	18 (5.5)
1 (2.5)	24 x 36 (60 x 90)	12 (3.6)

Notes:

1. Order in full carton quantities only.
2. Larger sizes available upon request.

Physical Properties

Maximum use limit, °F (°C)	2300 (1260°C)
Melting point, °F (°C)	3200 (1760°C)
Modulus of rupture, psi (Mpa) dry	115 (0.79)
Air permeability, ft ³ /min (m ³ /min) @ 2 in. (5cm) H ₂ O	3
Linear shrinkage, %	
after 24 hours @ 1800°F (982°C)	1.9
after 24 hours @ 2100°F (1149°C)	3.1

Chemical Analysis, % weight basis after firing

Alumina, Al ₂ O ₃	38
Silica, SiO ₂	60
Other	2

Data are average results of tests conducted under standard procedures and are subject to variation.

Data contained in this brochure are intended as a guide only. For specifications and estimating purposes, contact your nearest Thermal Ceramics representative.

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