

Foundry Service & Supplies, Inc.

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

11808 Burke Street, Santa Fe Springs, CA 90670
Telephone: (562) 945-6511
Fax: (562) 696-1633

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

Kaowool Paper 500 & 900

KAOWOOL® PAPER

500 GRADE

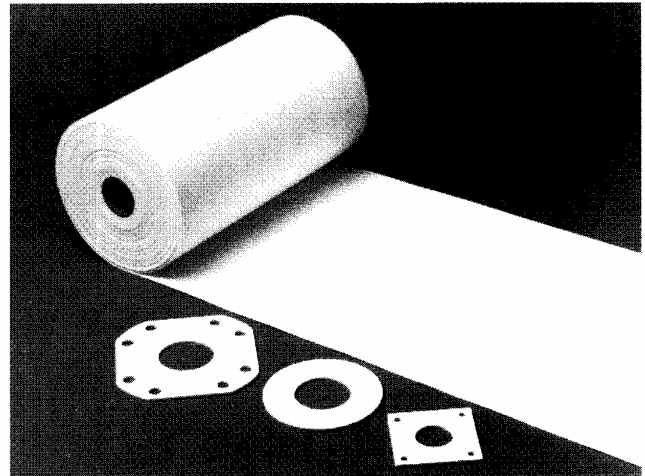
900 GRADE

- Low thermal conductivity
- Low heat storage
- Thin, flexible high-temperature insulation
- Easily die-cut to form complex shapes for high temperature gasketing
- Conforms easily to complex shapes
- Excellent backup and expansion joint material

Kaowool paper products are produced from Kaowool high-purity ceramic fibers and organic binders in a unique paper-making process. Both of these paper products are noted for their excellent tensile strengths, outstanding handling characteristics, and high insulating value at high temperatures. The 900 grade paper is manufactured from cleaned Kaowool high-purity ceramic fibers resulting in a premium paper product with low shot (unfiberized material) content.

Physical Properties

	500	900
Color	white	white
Nominal density, pcf	12 - 14	10 - 12
Thickness, in. @ 4 psf	1/32 - 1/4	1/32 - 1/4
Fiber index, %	50	65
Maximum temperature rating, °F	2300	2300
Continuous use limit, °F	2150	2150
Tensile strength (psi)	75 - 100	75 - 100
Fired tensile strength (psi)	5 -10	5 -10
Melting point, °F	3200	3200



Chemical Analysis

(Nominal, % weight basis after firing)

		500	900
Alumina	Al ₂ O ₃	47	47
Silica	SiO ₂	53	53
Other	trace	trace
Loss on ignition	L.O.I.	7 - 10	7 - 10

Chemical Properties

A small amount of organic combustible binder will burn out at approximately 300°F. **Caution should be exercised during the initial heating. Adequate ventilation should be provided to avoid potential flash ignition of the binder out-gassing or avoid air entry while at elevated temperature.**

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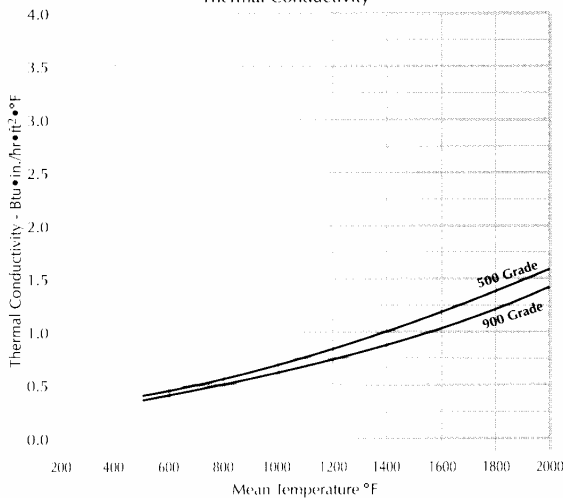
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Kaowool Paper (Cont.) 500 & 900

Thermal Properties

Kaowool[®] 500 and 900 Grade Papers
Thermal Conductivity



Thermal Conductivity

Btu•in./hr•ft²•°F (ASTM C 201)

Mean temperature	500	900
@ 500°F	0.43	0.38
@ 1000°F	0.69	0.61
@ 1500°F	1.07	0.94
@ 2000°F	1.58	1.40

Standard Sizes

Nominal Thickness	Width (In.)	ft² Per Roll (approx)	Mill Rolls L.F./Roll
1/32"	12, 24, 48	1000	1500
1/16"	12, 24, 48	500	750
1/8"	12, 24, 48	250	375
1/4"	12, 24, 48	125	185

* Non-standard roll size available upon request.

Typical Applications

- Gasketing between aluminum and zinc trough sections
- Aluminum furnace tap-out plug cover and parting agent
- Aluminum distributor pan linings
- Super alloy ingot mold linings and hot tops
- Glass sagger mold linings
- Combustion chamber liners
- Blast furnace blow-pipe insulation
- Gaskets for any high-temperature application
- Backup lining for metal troughs
- Refractory tube fabrication
- Refractory backup
- Fire protection
- Parting agent in brazing, heat treating and metal forming processes
- Glass tank refractory backup
- Glassware separator
- Automotive heat shields and muffler insulation
- Investment casting mold wrap
- Ladle refractory backup