

COGETHERM™

Composition:

An electrically insulating rigid mica laminate

Sheet Sizes:

39" x 47" in the following thicknesses:
1/8 to 3 inches
Cut and fabricated to shape.

Color:

Natural

Advantages:

Cogetherm is an excellent electrical and heat insulator with good mechanical properties. It is inert to most chemical agents including solvents, acids, bases and mineral oils. It is used as thermal/electrical insulation in induction and arc furnaces, in forging presses, in the glass industry and anywhere a high temperature electrical insulator is needed.

Specifications:

Density	130 lbs/ft ³
Maximum operating temperature (muscovite)	
continuous	932°F (500°C)
peak	1292°F (700°C)
Water absorption	<0.1%
Resistance to bending	29,000 psi
Tensile strength	17,400 psi
Dielectric strength	
68°F	625 V/mil
68°F after 1 hour at 752°F	325 V/mil
68°F after 1 hour at 1112°F	250 V/mil
Volume resistivity	
68°F	> 10 ¹⁶ ohm-cm
hot, at 752°F	> 10 ¹² ohm-cm
hot, at 932°F	> 10 ⁹ ohm-cm
Arc resistance	0
Thermal conductivity	
perpendicular to the plane of the plate	173 BTU/ hr, ft °F
along the plane of the plate	1733 BTU/hr, ft °F
Flame resistance UL 94	94 V-0