K-Shield® BF Papers

Datasheet Code US: 5-14-805 SDS: 201

Product Description

K-Shield BF Paper is an organic-free paper produced from premium, cleaned Kaowool high-purity fibers in a unique paper-making process. The cleaning process of these special fibers dramatically improves the thermal conductivity and insulating value of the product. K-Shield BF Paper offers excellent thermal resistance and good handling strength with no off-gassing.

Features

- 100% binder free
- Extremely low shot (unfiberized material) content
- Very low thermal conductivity and heat storage
- Excellent high-temperature parting agent
- Thin, flexible high-temperature insulation
- Good fired strength
- Easily die-cut for gaskets

Applications

- Separating media to prevent sticking
- Vacuum heat treating furnaces
- Parting agent in brazing and heat treating
- Powered Metal sintering
- Applications that require good fired strengths
- Commercial Appliance Insulation

Standard Size and Availability

Products	Thickness, in (mm)	Width, in (mm)	Sq Ft/Roll (M)	Mill Rolls, Linear Ft/Roll (M)
K-Shield BF	1/32 (0.8)	12 (305)	1000 (33)	-
	1/32 (0.8)	24 (610)	1000 (33)	-
	1/32 (0.8)	48 (1220)	1000 (33)	-
	1/16 (2)	12 (305)	500 (46)	750 (229)
	1/16 (2)	24 (610)	500 (46)	750 (229)
	1/16 (2)	48 (1220)	500 (46)	750 (229)
	1/8 (3)	12 (305)	250 (23)	375 (114)
	1/8 (3)	24 (610)	250 (23)	375 (114)
	1/8 (3)	48 (1220)	250 (23)	375 (114)
	¼ (6)	12 (305)	125 (12)	185 (56)
	¼ (6)	24 (610)	125 (12)	185 (56)
	¼ (6)	48 (1220)	125 (12)	185 (56)

K-Shield® BF Paper

Paper Product Name	K-Shield BF
Fiber Class	RCF
Physical Properties	
Color	white
Continuous Use Temperature, °F	2300
Continuous Use Temperature, °C	1260
Classification Temperature, °F	2400
Classification Temperature, °C	1316
Density, pcf	8-10
Denisty, kg/m^3	128-160
Tensile strength, psi	15-25
Tensile strength, Mpa	0.1-0.17
Fired Tensile strength, psi	15-25
Fired Tensile strength, Mpa	0.1-0.17
Fiber index, %	75
Chemical Analysis, % weight basis after firing	
Alumina, Al_2O_3	51
Silica, SiO_2	49
Other	trace
Loss of Ignition, LOI	0.5 max
Thermal Conductivity, BTU•in/hr•ft^2, per ASTM C201	
500°F	0.38
1000°F	0.59
1500°F	0.85
2000°F	1.18
Thermal Conductivity, W/m•K, per ASTM C201	
260°C	0.05
538°C	0.09
816°C	0.12
1093°C	0.17