

INSWOOL® 2300 PAPER



Product Data

6/2021: 5819

Description: 2300°F Alumina-Silica Ceramic Fiber Paper

INSWOOL® PAPER is a lightweight, refractory material processed from washed, spun alumina-silica ceramic fibers formed into a flexible sheet. It is recommended for continuous use at temperatures to 2300°F. It is especially noted for having exceptional low thermal conductivity and good handling strength. Its highly uniform structure assures equal thermal conductivity throughout and its clean, smooth surface makes it ideal as a gasket, seal, and spacer material. INSWOOL® PAPER contains an organic binder to provide increased handling strength. INSWOOL® PAPER also resists oxidation and reduction. If it becomes wet due to water, steam, or oil, its thermal and physical properties will return as soon as the material is thoroughly dried. No water of combination is present.

Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO ₂)	52.62%
Alumina (Al ₂ O ₃)	47.00%
Iron Oxide (Fe ₂ O ₃)	0.03%
Alkalies (Na ₂ O + K ₂ O)	0.35%

Physical Data (Typical)

Maximum Service Temperature				
For Continuous Use				2300°F (1260°C)
Fiber Melting Point				3200°F (1760°C)
Color				White
Loss on Ignition				8.0 to 10.0%
Thermal Conductivity				Btu · in/hr · ft ² · °F
At 500°F (260°C)				0.4
At 1000°F (538°C)				0.5
At 1500°F (816°C)				0.7
At 2000°F (1093°C)				1.0
Thickness Specifications (Nominal)	"A"	"F"	"J"	"K"
	1/32 in. (0.8mm)	1/16 in. (1.6mm)	1/8 in. (3.2mm)	1/4 in. (6.4mm)
Tensile Strength				
Machine Direction - lb/in.	26.46	16.53	16.53	---
Cross Direction - lb/in.	13.23	13.23	13.23	---
Mullen Burst - lb/in ²	27	---	---	---
Dielectric Strength v/ml	55	50	50	---

Note: This product is manufactured for HarbisonWalker International by a third party. The results reported herein have been supplied by the third-party manufacture. The above data are reported as typical properties and should not be taken as establishing maximum or minimum specifications. The above data is not intended as a warranty of any kind.