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Ceramic Fiber Blankets

Armil/CFS carries a range of ceramic fiber blankets for applications up to 3000°F (1650°C). Ceramic fiber blankets are lightweight, efficient insulators highly resistant to thermal shock and chemical attack. **Durablanket**® products are spun from extra long, high-purity **Fiberfrax**® ceramic fibers producing a blanket with exceptional handling strength.

Moist Pak D blankets are further impregnated with inorganic bonding agents resulting in a hard rigid structure upon drying. **Fibermax**® blankets are high alumina blankets manufactured using polycrystalline ceramic fibers.

Fibermax® blankets have excellent characteristics for use at elevated temperatures.



	Durablanket S	Durablanket 2600	Moist-Pak D	Fibermax Needed Blanket
Temperature Grade	2300°F	2600°F	2000°F	2912°F
Available Densities	4pcf, 6pcf, 8pcf	6 pcf, 8 pcf	12 – 18 pcf (typical dry)	6 pcf, 8pcf
Available Widths	24", 48"	24"	24"	24"
Available Thicknesses	¼", ½", 1", 1½", 2"	1", 1½", 2"	¼", ½"	1/2", 1"
Recommended Operating Temp.	2150°F	2450°F	1850°F	2912°F
Melting Point	3200°F	3200°F	3200°F	3400°F
Fiber Diameter	2.5-3.5 microns (mean)	2.5-3.5 microns (mean)	2-.3. microns (mean)	2.0-3.5 microns (mean)
Tensile Strength (ASTM 686-76)	7 psi		50 psi (dry)	6 psi (6lb density) 8 psi (8lb density)
Chemical Composition				
Al ₂ O ₃	43-47%	29-31%	23-32%	72%
SiO ₂	53-57%	53-55%	68-77%	27%
ZrO ₂	-----	15-17%	-----	-----
Fe ₂ O ₃	Trace	-----	-----	0.02%
TiO ₂	Trace	-----	-----	0.001%
MgO	-----	-----	-----	0.05%
CaO	-----	-----	-----	0.05%
Na ₂ O ₃	<.5%	-----	<.5%	0.10%
Alkali	0.05%	-----	-----	-----
Leachable Chlorides	<10 ppm	<10 ppm	-----	11 ppm
Other Inorganics	0.85%	-----	-----	-----
Thermal Conductivities BTU*In/hr*ft ² *°F				
600°	0.566	0.566	0.544	0.5
1000°	0.977	0.977	0.825	0.7
1600°	2.003	2.003	1.422	1.2
Availability	Stock Item	Stock Item	Stock Item	1-2 weeks Typical

Test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.