



15660 S. LaSalle Street
 South Holland, IL 60473
 Phone: 708-339-6810
 Fax: 708-339-0527
www.armilcfs.com
 Email: info@armilcfs.com

Soluble Fiber Blankets Silica Blankets

Armil/CFS carries biosoluble and amorphous silica blankets for use in high temperature applications where ceramic fiber can not be used. Blankets are inorganic and provide excellent thermal insulation at elevated temperatures. Blankets are needed to provide good handling strength. **Insulfrax S®** blanket was developed from a calcium, magnesium, silica chemistry to provide thermal insulation at temperatures to 2000°F. **Isofrax®** blanket has a unique patented silica magnesia chemistry designed for high temperature applications up to 2300°F. **Silica blankets** are amorphous silica for temperatures up to 1800°F. Silica blankets contain no shot and have excellent tensile strengths



	Insulfrax S	Isofrax	Silica Blanket
Temperature Grade	2000°F	2300°F	1800°F
Available Densities	4pcf, 6pcf, 8pcf	6 pcf, 8 pcf	8-10 pcf
Available Thickness	24"	24"	36"
Available Thick- nesses	½", 1", 1½", 2" (4pcf is not avail in 1/2")	1", 1½", 2"	¼", ½" 1"
Recommended Op- erating Temp.	1832°F	2300°F	1800°F
Melting Point	2300°F	2730°F	3000°F
Fiber Diameter	3-5 microns (mean)	3-5 microns (mean)	6-9 microns (mean)
Tensile Strength (ASTM 686-76)	7 psi (8pcf blanket)	7 psi (8pcf blanket)	16—22 psi
Chemical Composi- tion			
SiO ₂	61-67%	70-80%	95%
CaO	27-33%	18-27%	7%
MgO	2-7%	-----	-----
Other	Trace	0-4%	1%
Al ₂ O ₃			4%
Thermal Conductivities BTU*In/hr*ft ² *°F			
600°F	0.566	0.566	0.4 (500°F)
1000°F	0.977	0.977	1.0 (1200°F)
1600°F	2.003	2.003	1.5 (1500°F)
			2.1 (1800°F)
Availability	Stock Item	Stock Item	1-2 weeks

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.