



MAXSIL®  
SILICA FABRICS

McAllister Mills also offers a line of Maxsil Silica fabrics for the ultimate heat protection. Our silica fabrics are heat resistant to 2000°F (1100°C). A variety of styles are available with abrasion resistant coatings, high temperature coatings for added flexibility, silicone, as well as aluminum foil.



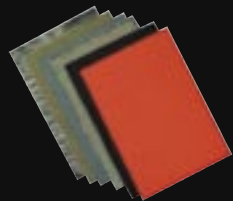
MAXSIL® SILICA  
BULK FIBER

A CERAMIC FREE bulk fiber insulation composed of amorphous silica fiber. This soft material is non-irritating to the skin and non-respirable. Maxsil HS Bulk Fiber has a service temperature to 2000°F and is pre-shrunk to allow minimal shrinkage in service. These fibers are suitable for vacuum forming and are molten metal resistant.



MAXSIL® MOLTEN  
METAL FILTERS

HIGH STRENGTH flexible molten metal filters designed for both high efficiency and high quality filtration of aluminum, copper, brass, bronze, cast-iron, and ductile iron. Maxsil Molten Metal Filters are made from amorphous silica yarn, leno woven to a uniform mesh size, and coated with a proprietary resin. This exacting process generates a screen that prevents mesh distortion and ensures consistent filtration.



FIBERGLASS  
FABRICS

McAllister Mills is a leading manufacturer of heat resistant fiberglass fabrics for industry. Our complete line of asbestos-free fabrics are ideal solutions for your high heat applications. Whether you're looking for a plain fiberglass fabric or a variety of coated fabrics, McAllister Mills is the answer. Applications include: fire blankets, welding curtains, expansion joints, gasketing and many more...



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Stay on the Safe Side  
with **MAXSIL®**



**RESISTANT TO 2000°F (1100°C)**

**Maxsil® CF6-2000**  
*Silica fiber needled blanket*

McAllister Mills listened to our customer's needs for an insulating blanket that resists high temperatures, is occupationally safe, and easy to work with. Our engineers developed a ceramic free needled silica blanket that is non-respirable, easy to fabricate and has a service temperature of 2000° F (1100° C).

REFORMER AND BOILER LININGS

FLEXIBLE HIGH TEMPERATURE PIPE INSULATION

REMOVABLE INSULATING BLANKETS FOR FIELD STRESS RELIEVING WELDS

ANNEALING COVER SEALS

REPLACEMENT CERAMIC FIBER



WELDING PROTECTION

BURNER WRAPS

EXPANSION JOINT SEALS

FURNACE DOOR LININGS AND SEALS

PRIMARY REFORMER HEADER INSULATION

NUCLEAR INSULATION APPLICATIONS

REUSABLE INSULATION FOR STEAM AND GAS TURBINES

INVESTMENT CASTING MOLD WRAPPINGS



## McAllister Mills

### MAXSIL® CF6-2000 MATERIAL SPECIFICATIONS

PRODUCT FORM  
Needled Blanket

SERVICE TEMPERATURE  
2000° F (1100° C)

CHEMICAL ANALYSIS  
SiO<sub>2</sub> 93.5% min.  
Al<sub>2</sub>O<sub>3</sub> 4.0% ±0.4%  
Na<sub>2</sub>O max. 0.8%

Fiber Diameter  
6 Microns  
(non-respirable)

FREE OF SHOT  
(UNFIBERIZED PARTICLES)

Pre-shrunk



HIGH TEMPERATURE GASKETING

HIGH TEMPERATURE FILTRATION



INCINERATION EQUIPMENT AND STACK LININGS

GLASS FURNACE CROWN INSULATION

SOAKING PIT SEALS AND INSULATION

PRODUCT CODE	S125-8	S250-8	S500-9	S1000-10
THICKNESS	1/8" (3mm)	1/4" (6mm)	1/2" (12mm)	1" (25mm)
DENSITY	8# (~130kg/m <sup>3</sup> )	8# (~130kg/m <sup>3</sup> )	9# (~150kg/m <sup>3</sup> )	10# (~170kg/m <sup>3</sup> )
THICKNESS TOLERANCE	±0.040" (1mm)	±0.040" (1mm)	±0.040" (1mm)	±0.080" (2mm)
STANDARD WIDTH	36" (.9m)	36" (.9m)	36" (.9m)	36" (.9m)
ROLL LENGTH	130 ft. (~40m)	100 ft. (~30m)	50 ft. (~15m)	33 ft. (~10m)

McAllister Mills' tightly controlled manufacturing process allows for the consistent production of a shot free fiber with a uniform diameter of 6 microns. This unique feature makes Maxsil CF6-2000 non-respirable and easy to fabricate. Now your maintenance team can install insulating blankets without gloves. Our blankets are even soft enough for a baby.



AVAILABLE THICKNESSES:  
1/8", 1/4", 1/2", 1"  
STANDARD WIDTH: 36"

CERAMIC FREE

NON-RESPIRABLE FIBER

MADE FROM CONTINUOUS  
FILAMENT SILICA FIBER

TEMPERATURES TO  
2000° F (1100° C)

ABSOLUTELY NO "SHOT"

HIGHER STRENGTH THAN  
ORIGINAL MAXSIL BLANKET

HIGHLY DURABLE

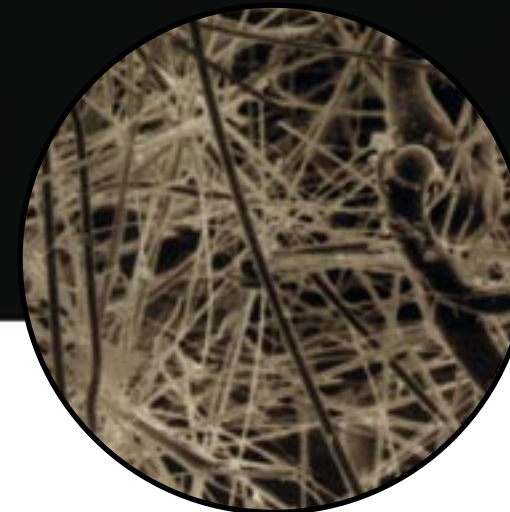
MULTIPLE REUSE

LOW SHRINKAGE

EXCELLENT THERMAL  
CONDUCTIVITY



Maxsil CF6-2000 has a uniform fiber diameter of 6 microns and is shot free. (electron microscope x300)



The diameter of ceramic fibers varies greatly and contains shot or unfiberized particles. (electron microscope x300)

Maxsil CF6-2000 is excellent as a stress relieving insulation and significantly less expensive than knitted silica blankets. Our continuous fiber blankets have increased durability due to their higher strength and abrasion resistance. Some customers have noted reusing the blanket up to 20 times.

## THERMAL PROPERTIES

Tested By Holometrix 6196 ASTM C177 thermal conductivity

TEST PRODUCT:	NEEDED SILICA BLANKET		MEAN TEMPERATURE		APPARENT THERMAL CONDUCTIVITY		THERMAL RESISTANCE	
	TEST THICKNESS:	TEST DENSITY:	°C	°F	SI <sup>1</sup>	British <sup>2</sup>	SI <sup>3</sup>	British <sup>4</sup>
	1.0 inch (25.0mm)	9.98 lbs/ft <sup>3</sup> (170 kg/m <sup>3</sup> )	92	198	0.0448	0.310	0.482	2.73
			203	397	0.0589	0.408	0.366	2.08
			316	600	0.0764	0.530	0.282	1.60
			537	999	0.1235	0.856	0.175	0.99

<sup>1</sup>THERMAL CONDUCTIVITY SI UNITS: W/m-K

<sup>2</sup>THERMAL CONDUCTIVITY BRITISH UNITS: Btu-in/hr-F-ft<sup>2</sup>

<sup>3</sup>THERMAL RESISTANCE SI UNITS: m<sup>2</sup>-K/W

<sup>4</sup>THERMAL RESISTANCE BRITISH UNITS: hr-F-ft<sup>2</sup>Btu