

### Supermag-HI Low-biopersistence Spun Blanket:

Supermag Spun Blanket is manufactured by melting oxides of silica, magnesia, and calcium through an electric furnace. Fiber is formed by spinning and air to direct it into a collection chamber. The fiber is doubled needed into a blanket form and cut to the standard widths of 24" and 48".

PRODUCT	SMG-HI Fiber Blanket		
TYPE	SMG		
TOLERANCES LENGTH	-0 / +9"		
TOLERANCES WIDTH	-0 / +0.250"		
SHOT CONTENT (ASTM C 1335):	< 35% (Mesh US 325)		
DENSITY (Calculated from weight & nominal thickness)	DENSITY	NOMINAL	TOLERANCES
	4 lb/ft <sup>3</sup> (64 Kg/m <sup>3</sup> )	4.5 lb/ft <sup>3</sup>	-15% +30%
	6 lb/ft <sup>3</sup> (96 Kg/m <sup>3</sup> )	6.0 lb/ft <sup>3</sup>	-15% +30%
	8 lb/ft <sup>3</sup> (128 Kg/m <sup>3</sup> )	8.0 lb/ft <sup>3</sup>	-15% +30%
	10 lb/ft <sup>3</sup> (160 Kg/m <sup>3</sup> )	10.0 lb/ft <sup>3</sup>	-15% +30%
TENSILE STRENGTH (PSI)	DENSITY		PSI (MINIMUM)
	4 lb/ft <sup>3</sup> (64 Kg/m <sup>3</sup> )		4
	6 lb/ft <sup>3</sup> (96 Kg/m <sup>3</sup> )		6
	8 lb/ft <sup>3</sup> (128 Kg/m <sup>3</sup> )		7
	10 lb/ft <sup>3</sup> (160 Kg/m <sup>3</sup> )		9
TAPER (As manufactured)	THICKNESS (mm)	THICKNESS (in)	TOLERANCES
	12 mm	0.500"	Less than 30%
	19 mm	0.750"	Less than 30%
	25 mm	1.000"	Less than 20%
	37 mm	1.500"	Less than 20%
	50 mm	2.000"	Less than 20%
THICKNESS TOLERANCES	THICKNESS (mm)	THICKNESS (in)	TOLERANCES
	12 mm	0.500"	0.500" to 0.750"
	19 mm	0.750"	-12.5% +25.0%
	25 mm	1.000"	-12.5% +25.0%
	37 mm	1.500"	-12.5% +25.0%
	50 mm	2.000"	-12.5% +25.0%

TYPICAL CHEMICAL ANALYSIS		
CHEMICAL ANALYSIS	ELEMENTS	%
	SiO <sub>2</sub>	60 – 70
	CaO	25 – 35
	MgO	3 – 7
THERMAL CONDUCTIVITY BTU-in/hr-ft <sup>2</sup> -°F (W/m <sup>2</sup> K)		
MEAN TEMPERATURE,	8 lb/ft <sup>3</sup> (128 kg/m <sup>3</sup> )	(ASTM-C-201 Test Method)
@ 500°F (260°C)	0.41(0.06)	
@ 1000°F (538°C)	0.78(0.11)	
@ 1500°F (816°C)	1.31(0.19)	
@ 1800°F (982°C)	1.69(0.24)	
@ 2000°F (1093°C)	1.98(0.29)	

