

SuperSilica

**Multifunctional
ecological safe**

HEAT

ELECTRO

SOUND

**insulation
materials
made from
silica fibres**



Heat Resistant to 1200 °C (2200 °F)

ASBESTOS FREE

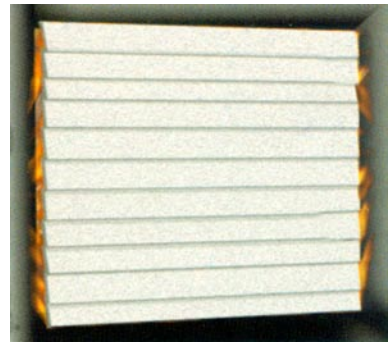
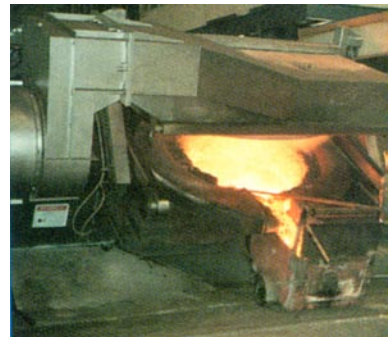
CERAMIC FREE

NON-RESPIRABLE

NO "SHOT"

SUPERSILICA heat and electric insulation is efficiently applied in the following fields:

- electric and combustion furnaces - for heat insulation of the melting space as well as of other components of the structure.
- induction furnaces - for heat and electric insulation of induction coils as well as of constructions, network nodes, substrates for overflow launders etc.
- a to make fire protective shutters, fire man suits
- nuclear and steam power plants - for pipe line, heat insulation.
- foundry - for thermal insulation of pouring gates and ladles.
- electro and gas welding for thermal and fire protection.
- gaskets and seals made by stamping and used in gas aggressive media at high temperatures
- appliances (irons, coffee-pots, tea-pots etc.) - for thermal and electric insulation.
- warmth keeping lagging or industrial and residential buildings, cottages, saunas, garages, workshops.



SUPERSILICA is flexible, it will outlines complicated surfaces, is not friable, keeps its structure at high temperatures.

SUPERSILICA is successfully used in airspace application.

SUPERSILICA fire resistance sound insulation is used in construction.

SUPERSILICA provides:

- high level of impact sound insulation of ceiling floors. Thin layer of SUPERSILICA reduces impact sound between, load bearing slab and covering 27 dB.;
- considerable reduction (by 85%) of impact noise in the buildings made of small-size elements (SUPERSILICA layers are placed between the basic carrying elements of the building).
- efficient sound absorption in spaces where high fire safety is required: in carriages - includ. underground - in crowded buildings, in controller's offices etc.
- sound absorption in multilayer sound insulation metal perforated ceilings, perforated wall panels



Durability, fire resistance and sound insulation properties of SUPERSILICA are superior to polyurethane foam, "Velotherm", cork, parquet and it can substitute:

- "Velotherm" used in joints of buildings;
- polypropylene foam, cork, parquet for floor structures
- glass and mineral wool as fire resistant sound absorber

SUPERSILICA is produced and delivered in various forms:

SUPERSILICA - roll material in the form of mat made from silica fibres got together without use of any binders which can burn out;

SUPERSILICA-S - mat stitched with silica yarn;

SUPERSILICA-M - multilayer material (in the form of stitched blankets).

SUPERSILICA-M1 - one side silica fabric material coated mat.

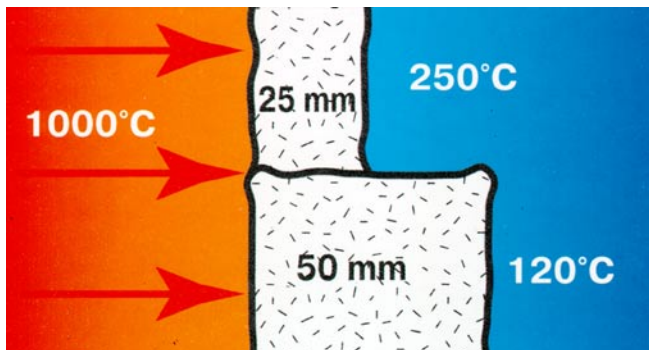
SUPERSILICA-M2 - two sides silica fabric coated mat

SUPERSILICA-M2 - has higher strength characteristics what makes it possible under



Technical characteristics

Description	Units	Value	
Operation temperature	°C (°F)	1100 (2000)	1200 (2200)
Content of amorphous SiO ₂	%	95	99
Linear shrinkage	%	7	8
Specific resistance	Om Cm	10 ¹⁷ - 10 ¹⁸	
Fiber diameter	mcm	6 - 9	
Thermal conductivity coefficient:	W/m K.		
t = 100°C		0.04	
t = 600°C		0.16	
t = 1000°C		0.34	



Roll width 920 mm

Description	Roll thickness, mm	Roll length, m	Volume density, kg/m ³
Supersil	6.0	30	130
	10.0	25	140
	12.5	15	150
	20.0	10	170
	25.0	8	170
Supersil - S Supersil - M1, M2	6.0	30	130
	12.5	15	150
	20.0	10	170

If necessary, some characteristic may be changed or improved

AKETOMA AB
 Maria Bangata 4, 118 63 STOCKHOLM
 Tfn. 08-668 20 10, Fax. 08-668 05 19
 E-mail cg@aketoma.se
 www.aketoma.se

LASEROPTRONIX AB
 Maria Bangata 4, 118 63 STOCKHOLM
 Tfn. 08-581 700 64, Fax. 08-668 05 19
 E-mail laseroptronix@algonet.se
 www.laseroptronix.se