THE GMS COMPANY.

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TECHNICAL DATA SHEET

SILICATEX 600/1200 GOLD

Rising demands to the efficiency of materials necessitate the application of inorganic fibres on an oxide basis (e.g. silica, aluminium) for temperatures exceeding 750°C. The importance of silica fibres is based upon their excellent resistance to high temperatures and their chemical and physical characteristics.

SILICATEX products consist of silica fibres showing an SiO2 content of approx. 98.9%. Due to their outstanding resistance to thermal shocks and to their excellent chemical and electrical resistance, SILICATEX products are increasingly applied in all branches of industry.

We supply SILICATEX products as yarns, fabrics, webbing, tubing's and cords.

Characteristics:

- continuous temperature resistance up to 1200°C
- melting point beyond 1700°C
- resistant to most chemicals except from hydrofluoric acid, phosphoric acid and strong caustics.
- very good electrical insulation properties
- easy to process
- no skin irritations
- no health hazards (fibre diameter 9 micron)

Typical applications:
Welding spatter protection, stress relieving blankets, furnace curtains, cable and hose protection, gasket material in valves controlling the flow of molten alloys.

Typical properties:

Weight (g/M^2):	600	1200
Thickness (mm):	0.7	1.1
Tensile strength (N/cm):		
warp:	450	
weft:	320	
Silica content (min):	96%	
Melting Temperature:	1600	
Width (mm):	910	
Nominal roll length:	50M	

NOTE:
The information contained herein is given in good faith but no liability will be accepted by The GMS Company in relation to the same.

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DATA SHEET.

GC550RS.

GC550RS is a medium weight glass cloth with a high density weave, woven in 'E' Glass Continuous Yarn and coated on one side with a fully cured red Silicone Elastomer.

APPLICATIONS.

GC550RS is a flexible fabric eminently suitable for Fire Resistant applications such as, Valve Protection Covers and Mattresses in oil and chemical works, For Expansion Joints and Bellows in Power Stations and Generating Plants or as a Fire/Smoke Baffle in offices, factories etc..

MATERIAL DETAILS.

Weight:	550g/M² (+/- 5%)
Base Cloth Weight:	430g/M²
Coating Weight:	120g/M²
Width:	1M
Roll Length:	50M
Thickness:	0.4mm
Tensile Strength:	92kN/M warp
	64kN/M weft
Working Temperature:	up to 550°

NOTE: This data sheet relates to the material as supplied; the information contained herein is given in good faith, but no liability will be accepted by the G.M.S. Company in relation to the same.

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DATA SHEET.

Wire reinforced Sewing Yarn.

Description.

This is a high temperature, flame resistant steel sewing thread consisting of a V2A – steel core and a cotton/Aramid cover with a flame resistant finish providing a good sewing performance for a wide range of technical applications.

MATERIAL DETAILS.

Tex no:	160
Count:	dtex. approx 1,600 x 1
	Nm. Approx 6.25/1
Strength:	approx 2,000 cN
Elongation:	approx 19-21%
Diameter (mm)	approx 0.35 – 0.40
Recommended needle size:	Nm 110 - 120

APPLICATIONS.

This thread is most suitable for use in areas where high temperatures are encountered. Typical product application areas are as follows:

- in the steel, electrical and building industries.
- high temperature protective clothing.
- gaskets, pumps and isolation.
- military, aviation and automotive industries.

INSULFRAX® PAPER

Insulfrax Paper products are manufactured from Insulfrax alkaline earth silicate wool, blended with specially selected organic binders to give flexible papers with exceptional characteristics.

Advanced production techniques ensure a highly uniform structure enhanced by low thermal conductivity, good handling strength and a smooth surface. Insulfrax Papers are available in a range of thicknesses and roll sizes.

General characteristics

Insulfrax® Paper has these outstanding characteristics:

- High temperature stability (up to 1200°C);
- Good handling strength
- Lightweight
- Excellent flexibility
- Easy to warp, cut and shape

Typical product parameters

Typical Chemical analysis (fibre wt. %)	
SiO_2	61.0 – 67.0
CaO	27.0 – 33.0
MgO	2.5–6.5
Al_2O_3	< 1.0
Fe_2O_3	< 0.6

Form: A1-072S
Effective: 23072012/ES/ka
Supersedes: 22052012/ES/fe

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Physical properties

Colour	White
Classification temperature*	1200°C
Melting point	> 1330°C
Tensile Strength	> 350 Kpa
Paper type	Washed
Product Density	140 – 160 kg/m^3
Loss on ignition	< 12.0 wt%

*Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact your nearest Insulcon Engineering office. Where appropriate Physical Properties data measured according to EN 1094-1.

Thermal Conductivity Data (W/mK)

200°C Mean Temp.	0.06
400°C Mean Temp.	0.10
600°C Mean Temp.	0.15
800°C Mean Temp.	0.22

Permanent Linear Shrinkage 24 hour soak

1200°C	< 4.0 %

Typical applications

- High temperature gaskets and seals
- Ingot mould liners
- Automotive heat shields
- Molten metal transfer systems (back-up insulation)
- Expansion joints

Availability

Thickness	1 mm	2 mm	3 mm	4 mm	5 mm	6 mm
	Roll Length (m)					
Width						
610 mm	125	60	35	25	20	15
1000 mm	380	180	110	85	60	45
1260 mm	380	180	110	85	60	45

Other thickness / sizes may be available on request subject to a minimum order requirement.

Insulfrax papers are available with one sided aluminium foil.

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