



Innovations in Fluid Sealing

ENGINEERED HIGH TEMPERATURE INSULATION PRODUCTS

Thermal Insulation Catalogue



Vol. 1 Issue 1 2012

Thermal insulation

Insulation is a barrier that minimizes the transfer of heat energy from one material to another by reducing the conduction, convection and/or radiation effects. Derived by application of Heat transfer between objects of differing temperature. This means to stem the heat flow by specially engineered methods or processes. Heat flow is an inevitable consequence of contact between objects of differing temperature. Thermal insulation provides a means to maintain a gradient of temperature, by providing a region of insulation in which heat flow is reduced or thermal radiation is reflected rather than absorbed.

In building construction, insulating materials are assigned a quantitative measure of the insulating capability, called the R-value. In thermal engineering of insulating systems for ovens, reactors, and furnaces, thermal conductivity (K), product density and specific heat (C) are the key product characteristics, which influence insulating efficiency, such as acolodet insulating. Low thermal conductivity (K) is analogous to high insulating capability (R).

Thermal insulation is a versatile term but principally covers the subject of control the loss of heat energy. This energy loss can be controlled with the help of naturally available minerals processed to suit a particular application. The minerals are Glass, Ceramic and Silica. Various forms of above materials are manipulated / processed and treated with synthetic /organic additives or coating help the materials to perform in most critical applications.

Applications

1. Insulation of high temperature furnaces.
2. Fire protection in ship building and aviation, welding blankets/curtains/protective shielding or few applications.

These materials have low conductivity, high resistance to thermal shock and are inert to majority of chemicals and resistance to acids of high concentrations and also offer resistance to weak alkalis of modern metals and alloys.

Thermal insulation of industrial installations like pipes, vessels, tanks and boilers is usually carried out for process technical requirements or for safety reasons, such as the protection of personnel from hot/cold surfaces. Only rarely is the additional potential for saving energy costs and CO2 emissions taken into consideration when new equipment is being designed or when existing installations are being checked.

- Fire Protection
- Boilers & Ovens
- Machine & Ship Building
- Power Generation
- Pipework
- Process Equipments
- Aerospace
- Tank & vessels
- Offshore
- Turbine Insulation
- Chimneys & Exhausts
- Sub Sea
- Petro chemicals & Chemicals

INSULATION BENEFITS

There are a number of basic reasons for thermal insulation of equipment and processes:

1. To protect personnel.
2. To improve process security.
3. To reduce heat loss for economy.
4. To reduce environmental impacts.
5. To increase the sustainability of processes and equipment.
6. Fire protection
7. Protection from corrosion
8. Acoustic protection.
9. Protection from Hot Pipes and Vessels
10. Thermal Efficiency
11. Thermal Shock Resistance



CERAMIC BRAIDED ROPE STYLE:123

Ceramic Fiber Rope Style 123 is diagonally braided or over braided or around a bulk ceramic rope core, the fiber are either E glass reinforced or Stainless Steel wire reinforced and can withstand temperature up to 1260°C

Style 123 is available with special chemical treatment which will not only make the product flame proof / fire retardant but also will increase the temperature resistance up to 1400°C

Style 123 conforms to ISO14000 norms and are environmentally friendly, non-toxic and non health hazardous.

Ceramic products conforms to physical parameter including dimensions to IS 14656. There is no specific standards for ceramic fiber rope but are generally covered under ASTM C892.

Advantages:

- Non Toxic, non health hazardous and environmental friendly.
- Longer life due to no less of strength at optimum working temperature.
- High thermal insulation properties ensures friendly working atmosphere.
- Non combustible and electrically non conductive (non metallic).
- Increase safety of plant personnel and improves productivity.

Service Media:

- Superior heated and Saturated Steam, Non Oxidising liquids and gases, Hot Blast, Alumina in power and Molten form, Dyes and Chemicals, Mild Acid and Alkalis

Application:

- Superior replacement of asbestos static door seals in boilers / Ovens/ Reformers/ Heat Exchangers/ Radiant tube packing core/ Heat treatment furnaces / Thermocouple tubes / Dummy bar seals / Insulation of pipe lines / Exhaust and pipe line expansion joints / High temperature valve glands in air, fuel and gas.

Note:

- Custom sizes and lengths possible, please contact our technical team for your requirements.
- Please indicate cross section required in square or round.

Properties	Unit	Value
		Style 123 / 123-S
Composition - Al ₂ O ₃	%	42-46
SiO ₂	%	52-55
Fe ₂ O ₃	%	1
Ti O ₂		Traces
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (at average of 1100°C)	W/m-°K	0.18
Effective under pH range	pH	2-12
Leachable Chloride content	ppm	< 100
Loss on Ignition (at average of 1200°C)	%	15 Max.
Linear Shrinkage (at average of 1200°C)	%	3
Average Density	Kg/m ³	600-800
Thickness	mm	3.0 to 90 Cross Sections (Round /Square)
Standard Length	Mtr.	100 (3- 10mm) 50 (12- 25mm) 20 (30- 50mm) 10 (60- 90mm)

Style Index:

Style	Description
S - 123T	Impregnated with Intherm® to enhance abrasion resistance and density of packing
S - 123V	Impregnated with special synthetic dispersion to enhance density and temperature resistance
S - 123ST	Impregnated wit Intherm® to enhance abrasion resistance and density of packing
S - 123SV	Impregnated with special synthetic dispersion to enhance density and temperature resistance



CERAMIC WOVEN TAPE STYLE: 240

Ceramic Woven Tape Style 240 is manufactured by weaving ceramic fibers reinforced with either E glass or Stainless Steel wire. These tapes have high heat retention capabilities and can be used as thermal protection / energy loss of pipe lines. As wrapping of exhaust. Control thermal properties on expose pipe joints/flanges etc and can withstand maximum temperature of 1260°C

Style 240 is available with special chemical treatment which will not only make the product flame proof / fire retardant but also will increase the temperature resistance up to 1400°C

Style 240 conforms to ISO14000 norms and are environmentally friendly, non-toxic and non health hazardous.

Ceramic products conforms to physical parameter including dimensions to IS 14656. There is no specific standards for ceramic fiber tape but are generally covered under ASTM C892.

Advantages:

- Non Toxic, non health hazardous and environmental friendly.
- Longer life due to no less of strength at optimum working temperature.
- High thermal insulation properties ensures friendly working atmosphere.
- Non combustible and electrically non conductive (non metallic rope).
- Increase safety of plant personnel and improves productivity.

Service Media:

- Superior heated and Saturated Steam, Non Oxidising liquids and gases, Hot Blast, Alumina in power and Molten form, Dyes and Chemicals, Mild Acid and Alkalis

Application:

- Superior replacement of asbestos static door seals in boilers / Ovens/ Reformers/ Heat Exchangers/ Radiant tube packing core/ Heat treatment furnaces / Thermocouple tubes / Dummy bar seals / Insulation of pipe lines / Exhaust and pipe line expansion joints / High temperature valve glands in air, fuel and gas.

Note:

- Custom thickness and widths possible, please contact our technical team for your requirements.

Properties	Unit	Value
		Style 240-E / 240-S
Composition - Al ₂ O ₃	%	42- 46
SiO ₂	%	52-55
Fe ₂ O ₃	%	1
Ti O ₂		Traces
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (at average of 1100°C)	W/m-°K	0.18
Effective under pH range	pH	2-12
Leachable Chloride content	ppm	< 100
Loss on Ignition (at average of 1200°C)	%	15 Max.
Linear Shrinkage (at average of 1200	%	3
Average Density	Kg/m ³	600-800
Width	mm	2.0 to 200
Standard Length	Mtr.	30
Thickness	mm	2.0 to 6.0

Style Index:

Style	Description
S - 240E T	Impregnated with Intherm® to enhance abrasion resistance and density of packing
S - 240E V	Impregnated with special synthetic dispersion to enhance density and temperature resistance
S - 240 ST	Impregnated with Intherm® to enhance abrasion resistance and density of packing
S - 240 SV	Impregnated with special synthetic dispersion to enhance density and temperature resistance



CERAMIC NEEDLE BLANKET STYLE: 260

Ceramic Needle Blanket Style 260 are lightweight manufactured from refractory ceramic fibers, the special spinning method applied in manufacturing these blankets offer high flexibility and insulating properties. These are also called needle blankets and are purely inorganic. Does not fume and resistance to most chemicals except hydrofluoric, phosphoric acid and concentrated alkalis. They retain physical and thermal properties even in wet condition.

Style 260 is non combustible and its approved for use against cellulosic and hydrocarbon fires and for dry wrapping of structural steel.

Application:

- Crude oil
- Reformer & Pyrolysis heater linings.
- High temperature for pipe, duct & turbine insulation.
- Heat treatment furnaces
- Reheating furnace linings.
- Soaking pit cover sealing.
- Stress reliving insulation, ovens & stock linings.

Note:

Custom thickness and widths possible, please contact our technical team for your requirements.

Service Media:

- Superior heated and Saturated Steam, Non Oxidizing liquids and gases, Hot Blast, Alumina in power and Molten form, Dyes and Chemicals, Mild Acid and Alkalis

Properties	Unit	Style 260 Value
Max. Working Temperature	°C	1260
Loss on Ignition	%	10
Melting Point	°C	1760
Average Density	Kg/m ³	64/96/128
Thermal Conductivity	wmk	0.18
Width	mm	610
Standard Length	Mtr	3800/7620
Thickness	mm	12.5 to 50.0



CERAMIC TUBING & SLEEVES STYLE: 250

Ceramic Sleeves Style 250 are woven by E glass reinforced ceramic fibers. Ceramic sleeves offers excellent thermal and electrical insulation properties. Can be used for electrical cable sleeving and as covering of high temperatures pipes. This can withstand molten splash and offer high mechanical strength with special chemical treatment.

Style 250 are available with special chemical treatment which will not only make the product flame proof / fire retardant but also will increase the temperature resistance up to 1400°C

Style 250 conforms to ISO1400 norms and are environmentally friendly, non-toxic and non health hazardous.

Ceramic products conforms to physical parameter including dimensions to IS 14656. There is no specific standards for ceramic fiber tape but are generally covered under ASTM C892.

Application:

- Electrical Sleeving
- Cover high temperature pipes
- High temperature for pipe, duct & turbine insulation.
- Heat treatment furnaces.

Note:

Custom thickness and widths possible, please contact our technical team for your requirements.

Properties	Unit	Style 250 Value
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (at average of 1100°C)	wmk	0.18
Effective under pH		2-12
Leachable Chloride content	ppm	100
Loss on ignition (at average of 1200°C)	%	15
Linear Shrinkage (at average of 1200°C)	%	3



CERAMIC FABRIC STYLE: 550

Ceramic Fabric Style 550 are manufactured by weaving ceramic yarn, these yarns are manufactured from inorganic refractory oxides in fibrous form having composition of alumina, silica and some special additives. These are either E Glass reinforced or SS wire reinforced. These yarns are closely woven in power looms to manufacture the textile.

Style 550 are available with special chemical treatment which will not only make the product flame proof / fire retardant but also will increase the temperature resistance up to 1400°C

Style 550 conforms to ISO1400 norms and are environmentally friendly, non-toxic and non health hazardous.

Ceramic products conform to physical parameter including dimensions to IS 14656. There is no specific standards for ceramic fiber tape but are generally covered under ASTM C892.

Advantages:

- Non Toxic, non health hazardous and environmental friendly.
- Longer life due to no loss of strength at optimum working temperature.
- High thermal insulation properties ensures friendly working atmosphere.
- Non combustible and electrically non conductive (non metallic rope).
- Increase safety of plant personnel and improves productivity.

Service Media:

- Superior heated and Saturated Steam, Non Oxidising liquids and gases, Hot Blast, Alumina in power and Molten form, Dyes and Chemicals, Mild Acid and Alkalis

Application:

- Thermal Power Station, Iron & Steel plants, Aluminum plants, Glass and Ceramic Industries, Refineries, Fertilizers, Cement Industries etc.

Note:

- Custom thickness and widths possible, please contact our technical team for your requirements.

Properties	Unit	Style 550 Value
Composition - Al ₂ O ₃	%	42-46
SiO ₂	%	52-55
Fe ₂ O ₃	%	1
Ti O ₂		Traces
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (at average of 1100°C)	W/m-°K	0.18
Effective under pH range	pH	2-12
Leachable Chloride content	ppm	< 100
Loss on Ignition (at average of 1200°C)	%	15 Max.
Linear Shrinkage (at average of 1200°C)	%	3
Width	mm	1000
Standard Length	Mtr.	30
Thickness	mm	2.0 to 6.0

Style Index:

Style	Description
S-550ET	Impregnated with Intherm® to enhance abrasion resistance and density of packing
S-550EV	Impregnated with special synthetic dispersion to enhance density and temperature resistance
S-550ST	Impregnated with Intherm® to enhance abrasion resistance and density of packing
S-550SV	Impregnated with special synthetic dispersion to enhance density and temperature resistance



FIBERGLASS BRAIDED ROPE STYLE: 124

This braided rope is made from premium texturized electrical and chemical resistant special Fiberglass in cover on cover braid. Style 124 is of high tenacity and are meant for static sealing in dry condition. Style 124 can also be used in dynamic condition while treated with special dispersion based on Graphite, Vermiculite or PTFE. This also available with Ss wire/ inconel wire reinforced to resist higher pressure and static load.

Properties	Unit	Style Value
Max. Working Temperature	°C	-240 to 550
Loss on Ignition (at 850°C)	%	1
Thermal Conductivity (at 550°C)	W/m-°K	0.2
Thickness	mm	3.0 to 100 Cross Sections (Round /Square)
Standard Length	Mtr.	100 (3-10mm) 50 (12-25mm) 20 (30-50mm) 10 (60-90mm)

Application:

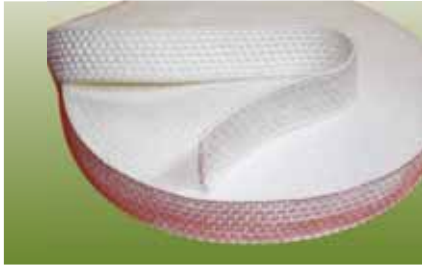
- Furnace Doors
- Fill glass flange and kiln cover
- Chemical glass flanges in exhaust and chimneys
- Equipments handling highly corrosive, alcohol and solvents except HF HCL and hot phosphoric acid.

Note:

- Custom sizes and lengths possible, please contact our technical team for your requirements.
- Can be supplied in roll form, square or rectangular cross sections.
- Please specify cross section when placing order.
- This rope is also available with wire reinforcement. Please see the below table for ordering.

Style Index:

Style	Description	Temperature
S-124	Dry Glass Fiber Packing	-240°C to 550°C
S-124T	Dry Glass Fiber with Intherm® Dispersed	-240°C to 550°C
S-124F	Inflon® Dispersed	-240°C to 550°C
S-124I	Reinforcement Inconel wires	-240°C to 550°C
S-124IF	Reinforcement Inconel wires with PTFE	-240°C to 550°C
S-124G	Reinforcement Inconel wires & Intherm® Dispersed	-240°C to 600°C



FIBERGLASS WOVEN TAPE STYLE: 131

Style 131 is made of 100% continuous filament Fiberglass and does not contain asbestos or ceramic. Tough, flexible and versatile material. Can withstand temperatures up to 550°C.

Fiberglass tape is non hazardous, and it has good insulation and heat resistance properties.

Style 131 is non toxic, no heavy metals, excellent heat retention capabilities.

Application:

- Static door seal for boilers/ over/ reformers/ furnaces/ heat exchangers/ Radiant tube packings.
- Dummy bar seals
- Insulation of pipe lines, exhausts and pipe line expansion joints.
- High Temperature valve glands in air, fuel gas etc.

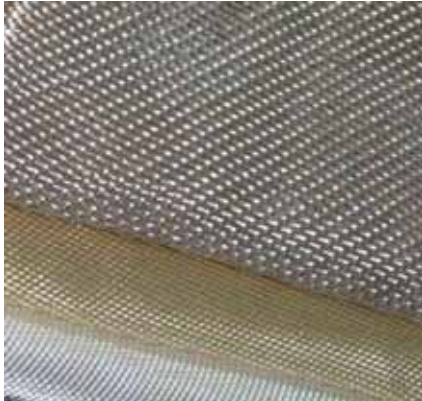
Properties	Unit	Style Value
Max. Working Temperature	°C	550
Loss on Ignition	%	10
Thermal Conductivity (at average of 550°C)	wmk	0.3
Melting Point	°C	1050
Average Density	grms/cc	1.2-1.4
Width	mm	10.0 to 100
Standard Length	Mtr.	30
Thickness	mm	2.0 to 6.0

Style Index:

Style	Description
S-131SS	Wire Reinforced
S-131AF	Aluminum Foil
S-131G	Graphite Coating
S-131SR	Silicone Rubber Coating
S-131V	Vermiculite Coating

Note:

- Custom sizes and lengths possible, please contact our technical team for your requirements.
- Can be supplies with graphite
- This tape is also available with wire reinforcement. Please see the below table for ordering.



FIBERGLASS FABRIC STYLE: 500

Style 500 Fiberglass fabric has excellent resistance to high temperature superior mechanical strength provides acoustics insulation and are woven from texturized e glass fibers, the texturized fibers provide a smooth shiny finished on the fabric, can be used on variety of applications. The properties of fiberglass can be improved with special coatings and heat treatment. Inmarco's technical cell can recommend the right fabric suitable.

Style 500 have perfect insulating characteristics as well as excellent abrasion and tear resistance.

Application:

- Weld protection
- Heat shield oven door seals
- Emergency fire blanket
- Fire curtain, insulation
- Foundry splash protection.

Style Index:

Style	Description
S- 500	E Glass woven Fabric
S- 500S	Silicone Coated
S- 500P	PTFE Coating
S- 500V	Vermiculite Coating
S- 500F	Aluminum Foil

Properties	Unit	Style 500 Value
Max. Working Temperature	°C	550
Loss on Ignition	%	10
Melting Point	°C	1050
Average Density	g/cc	1.2 - 1.4
Thermal Conductivity	wmk	0.3
Width	mm	1000-1010
Standard Length	Mtr	25/30
Thickness	mm	3,4,5,6

Note:

- Custom widths possible, please contact our technical team for your requirements.
- These fiberglass fabric can be treated with different coatings or finishes to precisely meet customer specification.

FIBERGLASS FABRIC STYLE: 500M



Style 500M Non Asbestos Textiles are manufactured from special untexturized filament yarn. This is manufactured from inorganic refractory oxides in fibrous form having composition of Alumina, Silica and some special additives. This yarns are closely woven in power looms to manufacture textile.

Style 500M are highly resistant. These are electrically and thermally insulating. These are thermally stable and does not become brittle and loss its properties at elevated temperature. This is extremely suitable for heat shield.

Style 500M non asbestos cloth is finally chemically treated with microlite Compound to make the cloth Fire Retardant & Molten Resistant. If required this non asbestos cloth can be treated with rubber compound which can be graphite or non graphitic.

Style 500M textile products are environment friendly, non toxic and non health hazardous. These textile can effectively be used in gaseous applications as well as in liquid and in viscous chemicals but are suitable for static applications only.

Application:

- Furnace, oven, Boiler, Flanges, grooves, Casting cover.
- Exhaust steam pipes
- Welding Blankets

Service Media:

- Super heated and Saturated Steam, Non Oxidizing liquids and gases, Hot Blast, Alumina in power and Molten form, Dyes and Chemicals, Mild Acid and Alkalis

Properties	Unit	Style 500 M Value
Max. Working Temperature	°C	1000
pH Range	pH	1-13
Thermal Conductivity (at average of 850°C)	wmk	0.2
Loss on Ignition(at average of 850°C)	%	8
Thickness	mm	3mm
Standard Length	Mtr.	25-30
Average Dencity	grms/cc	1.3-1.5
Width	mm	1000-1010

Note :

- Custom widths possible, please contact our technical team for your requirements.
- These fiberglass fabric can be treated with different coatings or finishes to precisely meet customer specification.



FIBERGLASS TUBING & SLEEVES STYLE: 161

Fiberglass Sleeves Style 161 are made from superior E glass filament yarns, texturized E Glass fibers, specially used as a cover on the electrical cables, other application include pipe protection and offer excellent insulation capabilities and can withstand in temperatures as high as 540°C

Application:

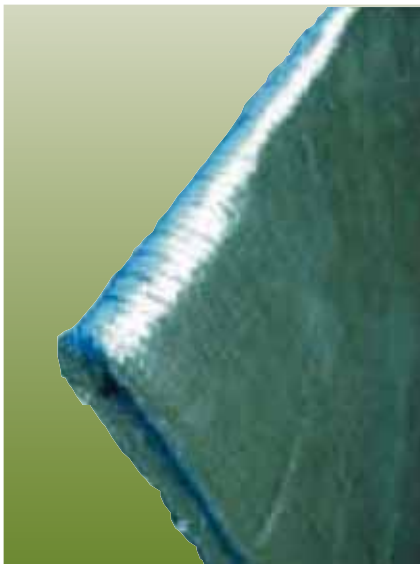
- Electrical Sleaving
- Cover high temperature pipes
- High temperature for pipe, duct & turbine insulation.
- Heat treatment furnaces.

Properties	Unit	Style 161 Value
Max. Working Temperature	°C	550
Loss on Ignition	%	10
Melting Point	°C	1050
Availability	mm	10.0 to 100 (Inner width)

Note:

- Custom thickness, widths and customary coatings possible, please contact our technical team for your requirements.
- Available with Silicone Coatings

FIBERGLASS FABRIC COATED WITH ALUMINIUM FOIL STYLE: 225



For higher temperature exposure, textured E-glass products are used with an added high temperature treatment. An inorganic finish is applied to the surface of the fabric, giving the fabric temperature resistance up to 750°C. For additional strength and support in applications where fabrics will be subjected to high mechanical stress, stainless steel threads may be woven into the fabric. E-Glass can be treated with different coatings or finishes to precisely meet customer specifications. Among the possibilities: reflective or water resistant surfaces, enhanced cut resistance, and increased thermal and mechanical resistance for higher performance in high temperature applications such as welding.

Properties	Unit	Style 225 Value
Temp. Resistance Fabric	°C	750
Temp. Resistance Coating	°C	200
Finish		Aluminium Foil
Weight	gr/m ²	200
Coating Weight	gr/m ²	1 x 70
Thickness	mm	0.18
Width	cm	100
Roll Length	Meters	100

Application:

- Excellent heat radiation reflection.
- Resistance to abrasion and cracks.

Note:

- Custom sizes and lengths possible, please contact our technical team for your requirements.
- Please specified cross section when placing order



SILICA ROPE STYLE: 126

Style 126 is Amorphous Silica Fiber have excellent corrosion and deterioration resistance at elevated temperatures, the braided ropes are available in square and round cross sections. These ropes are suitable in sealing applications where temperatures exceeds 1000°C. These ropes do not brittle and does not loose its properties.

Benefits:

- Non Toxic and Non health hazardous
- Environmental Friendly

Service Media:

- Superior heated and Saturated Steam, Non Oxidizing liquids and gases, Fuel gases. Hot Blast,

Application:

- Furnace, oven, Boiler, Flange grooves, Exhaust Steam pipes.
- These ropes can be effectively be used in Gaseous applications as well as in liquid and viscous chemicals but are suitable for static applications only.
- Seal for casting moulds, as a packing in electric transformers.

Properties	Unit	Style 126 Value
Composition - SiO ₂	%	94-96
Max. Working Temperature	°C	1100
Loss on Ignition	%	7-12
Melting Point	°C	1600
Average Density	Kg/cm ²	700-900
Cross sectional size	mm	3.0 to 90 Cross Sections (Round /Square)
Standard Length	Mtr.	100 (3-10mm) 50 (12-25mm) 20 (30-50mm) 10 (60-90mm)

Note:

- Custom sizes and lengths possible, please contact our technical team for your requirements.
- Please specified cross section when placing order.



TADPOLE GASKET



FIRE PROTECTION BLANKET WITH EYELET



SILICA WOVEN TAPES STYLE : 132

Style 132 is Amorphous Silica fiber are woven tapes from 96% pure SiO₂ silica fibers. These fibers have excellent corrosion and deterioration resistance at elevated temperatures the tapes are available in different widths and thickness. These tapes are suitable in sealing and thermal insulation applications where temperatures exceeds 1000°C. These tapes do not brittle and does not lose its properties.

Silica woven tapes are edge protected can withstand in extreme heat, welding splatter and molten metal. The performance is extremely good and attributes resistance to fire flame.

Benefits:

- Non Toxic and Non health hazardous
- Environmental Friendly

Service Media:

- Superior heated and Saturated Steam, Non Oxidizing liquids and gases, Fuel gases. Hot Blast,

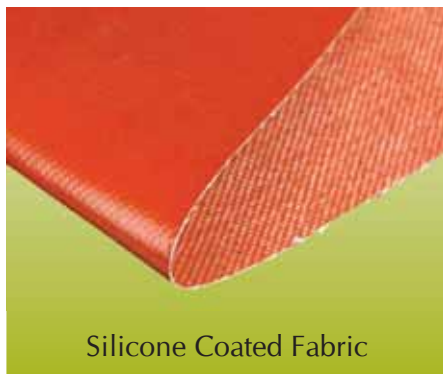
Application:

- Insulation wraps for pipes, hoses and electrical cables, isolated high temperature welding protection.
- Can be a good substitute upon glass tapes.

Properties	Unit	Style 132 Value
Composition -SiO ₂	%	94-96
Max. Working Temperature	°C	1100
Loss on Ignition	%	7-12
Melting Point	°C	1600
Average Density	Kg/cm ²	700-900
Width	mm	10.0 to 100
Thickness	mm	2.0 to 6.0
Standard Length	Mtr.	30.0

Note:

- Custom sizes and lengths possible, please contact our technical team for your requirements.



Silicone Coated Fabric



Silicone Coated Sleeves



SILICA FABRIC STYLE: 142

Silica fabrics are woven from 96% SiO₂ Silica fibers. These fabrics are time tested and proven to perform in extreme heat conditions, these are highly resistant to corrosion and chemical attack. Excellent thermal insulation and electrical resistance capabilities. Silica fabrics are resistant to temperature of 1000°C and resist up to 1400°C for a short period of time. Silica Fabrics can be a protection device in case of a fire. These fabrics have low thermal conductivity, high resistance to thermal shock and inert to chemical reagents, resistance to organic and chemical acids in any concentration even at high temperatures except hydrofluoric, phosphoric and hydrochloric acid.

Benefits:

- Low halogen and soluble chlorides, does not contain asbestos or ceramic, safe suitable for ceramic refractory applications.

Application:

- Molten metal splash, valve covers, welding blankets and curtains.
- Insulation of furnaces, thermal and fire protection in machine, building, shipbuilding and aviation.
- Stress remover in pipe welding.
- Insulation of turbines and insulation of mufflers in automotive
- Fire resistant doors and firemen protection.

Properties	Unit	Value			
		Style 142 (600-S)	Style 142 (600-V)	Style 142 (1000-S)	Style 142 (1000-V)
Composition - SiO ₂	%	94-96	94-96	94-96	94-96
Temperature	°C	1200	1200	1200	1200
Loss on Ignition	%	7-12	7-12	7-12	7-12
Melting Point	g/m ²	1600	1600	1600	1600
Surface Density	mm	580±60	630±60	1100±100	1200±150
Thickness	mm	0.6	0.6	1.1	1.1
Length	Yards	50	50	50	50
Weave	Satin	8/3 Satin	8/3 Satin	12/5 Satin	12/5 Satin
Tensile Strength (N-warp)	Kgf	1078 (110)	1274 (130)	1764 (180)	1764 (180)
Tensile Strength (N-weft)	Kgf	784 (80)	980 (100)	1372 (140)	1372 (140)
Width	cm	94-200	94-200	94-200	4-200
Coating		Vermiculite 2 side			Vermiculite 2 side
Colour		Offwhite	Tan	Offwhite	Tan

Note:

- Custom widths and thickness possible, please contact our technical team for your requirements.
- These silica fabric can be treated with different coatings or finishes to precisely meet customer specification.



SILICA TUBING & SLEEVES STYLE: 162

Silica Tubing or Sleeves are generally used in protecting precious industrial cables or high temperature pipe lines to control energy loss, it can provide protection against weld splatter, fire, extreme heat. These sleeves can be pulled over any items which are in circular cross section. Additional coating will be required to provide abrasion resistance. Can withstand temperatures up to +1000°C

Benefits:

- Environmentally safe, no asbestos content, non hazardous

Application:

- Cable and wire insulation and pipe cladding. Water cooling hoses, hydraulic hoses, electrical cables, exhaust system.
- Roller covers for tempered glass manufacturing as a molten metal filter, thermal insulation rings.

Properties	Unit	Style 162 Value
Composition -SiO ₂	%	94-96
Temperature	°C	1100
Loss on Ignition	%	7-12
Melting Point	°C	1600
Average Density	Kg/cm ²	700-900
Width	mm	10.0 to 100
Thickness	mm	2.0 to 6.0
Length	Mtr.	30

Note:

- Custom thickness, widths and customary coatings possible, please contact our technical team for your requirements.
- Available with Silicone Coatings

OTHER RELATED PRODUCTS



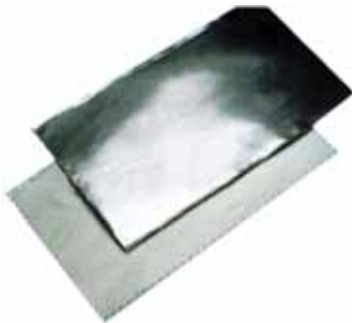
TADPOLE GASKET



CERAMIC MILL BOARD



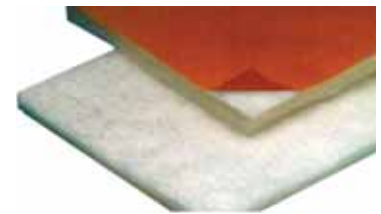
LADDER TAPE



ALUMINUM FOIL FELT FABRIC



STAINLESS STEEL NEEDLE FELT



NEEDLE MATS WITH ADHESIVE



WEBBING TAPES



EYELETED BLANKET



GLASS NEEDLE MAT

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