INMARCO®

Innovations in Fluid Sealing.

www.inmarco.ae

Technical Textiles in Silica, Ceramic & Glass

Thermal Insulation



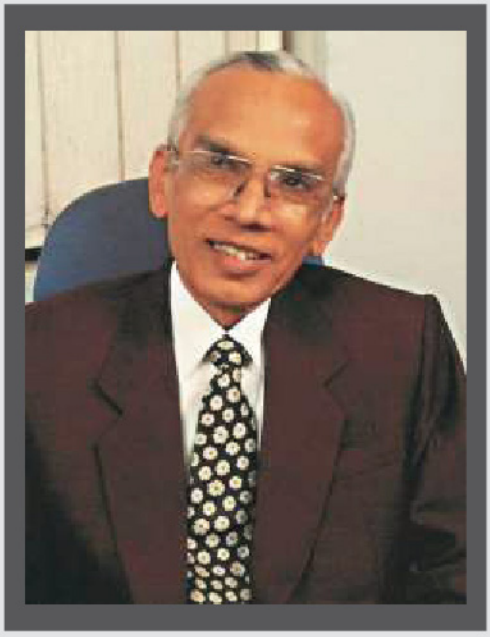




TÜVRheinland® CERT ISO 9001

ISSUE 2 2017

CORPORATE MESSAGE



R. M. DOSHI
Managing Director

Our philosophy towards 'Non-Asbestos fluid sealing products, led to the establishment of INMARCO Industries Private ltd., in 1982. Since then, INMARCO has grown on this initiative and has dedicated itself towards the development of 'Hi-tech'industrial sealing products. All our products subscribe to the international standards & this is authenticated by several associations and clientele worldwide.

I take this opportunity to thank you for your interest in INMARCO, and we at INMARCO stand committed in serving you to your expectations.

ABOUT US

INMARCO is one of the leading manufacturer of superior quality "Fluid Sealing Products" accepted and approved by variety of industries. Inmarco has attained market leadership in fluid sealing industry through its dedication to customer service and product development. Inmarco is committed for continuous improvement and has grown throughout three decades contributing to the environmental friendly Sealing Solutions. Non Asbestos culture has been driven and many a personnel to understand the asbestos menace in today's life. Inmarco's clientele are happy and satisfied of our untiring support for the sealing problems. Based on technological capabilities and perfection achieved over the years, Inmarco provides a wide range of products and services to the maintenance Industry. Our determinations to conduct business on a global scale is supported by and reflected in a fundamental philosophy utilization of technological expertise/ accumulation over three decades to access changes that occurred with passage of time while continuously evolving previously unexplored areas.

WARE HOUSING

Located in the heart of the world business hub at SAIF Zone Sharjah UAE. Equipped with State of European Machinery.

STOCKS - The Warehouse stocks varieties of exotic raw materials for ever demanding modernized applications.

STORES - The temperature control stores takes care of the wellbeing and enhances shelf life of raw materials and the finished products.

INSPECTION - We never choose cheap materials, every incoming shipment follows stringent inspections system and are stored at predefined locations.

PACKING AND DISPATCH - Latest packing methodology in use with the modern gadgets and simplified equipments to perform efficient packing.

VALUES

With MARKET-oriented structures, new and stronger product offerings, technically skilled-employees and efficient environmental impact MANAGEMENT SYSTEM, armed with global rapport with similar manufacturing companies and access to the latest development in the industry and a resilient local spirit, we are dedicated to delivering the best results. It is our people who make the system come alive and turn these principles, policies, and procedures into reality.

TECHNOLOGIES & RESOURCES

INMARCO is driven by using non asbestos materials and is committed to provide superior and quality products that passed international standards and are environmental friendly. Technologies has helped develop more advance processes and has produced unwanted by-products causing pollution and deplete natural resources to the detriment of the earth and its environment that causes threat not only in the environment but also to mankind. With its philosophy in non-asbestos fluid sealing products INMARCO is able to do its part in conserving the environment.

MISSION & VISION

MISSION - Values - a driving force for Change...
A company rooted in unweavering values, INMARCO keeps ahead of change, reaping opportunities for growth. Striving to maintain leadership in industrial sealing products with wide manufacturing range. Providing a high quality product that combines performance with value for pricing, while establishing a successful relationship with the customers.

VISION - To be a market leader surpassing all hurdles of the industry, automate the process, systematized supplies and offer twenty-four-seven on service.

CREDENTIALS

SERVICES

Inmarco is pleased to offer 24/7 onsite technical and installation services. Inmarco is specialized in manufacture of valve sealing systems and is proud to announce that the recently developed expandable version of valve cart seal has outperformed the expected results. Certificated by American Petroleum institute under standard ANSI/API standard 607 Fifth Edition – and API 589 Second Edition . We offer valve seal refurbishment and can undertake onsite jobs also.

- Construction
- Chemical Processing
- Food & Beverage
- Marine & Dry-docking
- Oil & Gas
- Pharmaceuticals
- Power Generation Desalination & Waster Water
- Paper & Pulp
- Steel & Aluminum

CERTIFICATIONS & APPROVALS

Cartseal Fire Safe Certified
As Per Api 607

Packing Style 100fxi-special Conform
To Fugitive Emission Norms As Per Api 622

Packing Style 100fxi-special
Fire Safe Certified Asper Api 607

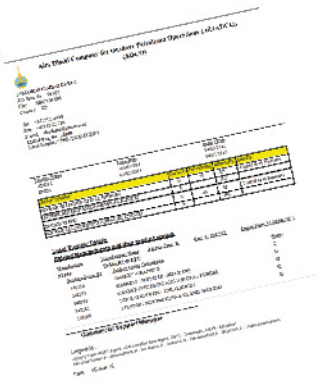
Borogue

Takreer

Gasco

Ruwais Fertilizer
Industries (Fertil)

Adgas



Adco

Petroleum Development
Of Oman

Qatar Petroleum

ROPES & SLEEVES

Product Type	Description	Operational Parameters

INM064

INMARCO STYLE 123

CERAMIC BRAIDED ROPE

STYLE 123 Ceramic Fibre Rope is diagonally braided or over braided or around a bulk ceramic rope core, the fibers 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 conform to physical parameter including dimensions to IS 14656. There are no specific standards for ceramic fibre 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.

Style Index

Style	Description
S-123E	E-Glass plain inter-braided ceramic packing.
S-123S	Stainless Steel wire reinforced inter-braided ceramic packing.
S-123T	E-Glass reinforced inter-braided ceramic packing impregnated with Inflorus® to enhance abrasion resistance and density.
S-123V	E-Glass reinforced inter-braided ceramic packing impregnated with special synthetic dispersion to enhance density and temperature resistance.
S-123ST	Stainless Steel wire reinforced inter-braided ceramic packing impregnated with Inflorus® to enhance abrasion resistance and density.
S-123SV	Stainless Steel wire reinforced inter-braided packing impregnated with special synthetic dispersion to enhance density and temperature resistance.

PROPERTIES	UNIT	VALUES
		Style 123/123-S
Composition – Al_2O_3	%	42-46
SiO_2	%	52-55
Fe_2O_3	%	1
TiO_2		Traces
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (@ average of 1100°C)	W/m-°K	0.18
Effective under pH range	pH	2-12
Leachable Chloride content	ppm	<100
Loss on Ignition (@average of 1200°C)	%	15max.
Linear Shrinkage (@ average 1200°C)	%	3
Average Density	Kg/m³	600-800
Thickness	mm	3.0 to 90 cross section (round/square)
Standard Length	Mtr.	100 (3-10mm), 50 (12-25mm), 20 (30-50mm) & 10 (60-90mm)

Typical 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.

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.

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

INM065

INMARCO STYLE 140

CERAMIC PACKING

STYLE 140 is a dry non asbestos cover on cover braided packing. The yarn is manufactured from inorganic fibrous material made from refractory oxides. The packing is highly resistant to heat. This is electrically and thermally insulating.

STYLE 140 is a packing which is not only thermal resistant but also chemical resistant. It is thermally stable and is highly resilient.

STYLE 140 is non health hazardous, non toxic and eco friendly. This packing can effectively be used in gaseous application as well as in liquid and viscous chemicals but are suitable for static applications only.

PROPERTIES	VALUES
pH	1 - 13
Temperature (°C)	+550°C
Thermal Conductivity	0.20 W/MK (@ average 550°C)
Loss on Ignition	1% max. @ 850°C
Size	3mm² to 90mm²

Service Media:
Super heated and Saturated steam, All non oxidizing liquids and gases, Dyes &Chemicals, etc.

Typical Application:
Furnace & Oven doors, boiler door, Peep & Inspection hole, Flange Grooves, Exhaust Steam Pipes, Kiln, etc.

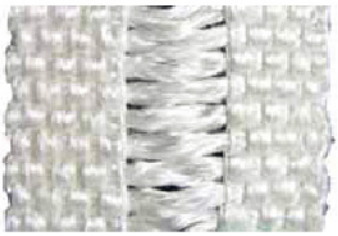
THERMAL INSULATION

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.

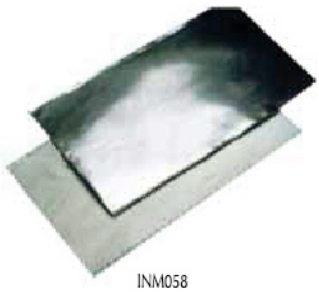
In building construction, insulating materials are assigned a quantitative measure of the insulating capability, called the R-value. In thermal engineering of insulating systems for ovens, reactors, and furnaces, thermal conductivity (K), product density and specific heat (C) are the key product characteristics, which influence insulating efficiency, such as accolade insulating. Flow 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 helps the materials to perform in most critical applications.

OTHER INSULATION MATERIALS



INM057
LADDER TAPE



INM058
ALUMINUM FOIL FELT FABRIC

INM059
STAINLESS STEEL NEEDLE FELT

INM060
NEEDLE MATS WITH ADHESIVE

INM062
EYELETED BLANKET

INM063
GLASS NEEDLE MAT

ROPES & SLEEVES

Product Type	Description	Operational Parameters

INM064

INMARCO STYLE 123

CERAMIC BRAIDED ROPE

STYLE 123 Ceramic Fibre Rope is diagonally braided or over braided or around a bulk ceramic rope core, the fibers 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 conform to physical parameter including dimensions to IS 14656. There are no specific standards for ceramic fibre 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.

Style Index

Style	Description
S-123E	E-Glass plain inter-braided ceramic packing.
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S-123ST	Stainless Steel wire reinforced inter-braided ceramic packing impregnated with Inflorus® to enhance abrasion resistance and density.
S-123SV	Stainless Steel wire reinforced inter-braided packing impregnated with special synthetic dispersion to enhance density and temperature resistance.

PROPERTIES	UNIT	VALUES
		Style 123/123-S
Composition – Al_2O_3	%	42-46
SiO_2	%	52-55
Fe_2O_3	%	1
TiO_2		Traces
Max. Working Temperature	°C	1260
Melting Point	°C	1760
Thermal Conductivity (@ average of 1100°C)	W/m-°K	0.18
Effective under pH range	pH	2-12
Leachable Chloride content	ppm	<100
Loss on Ignition (@average of 1200°C)	%	15max.
Linear Shrinkage (@ average 1200°C)	%	3
Average Density	Kg/m³	600-800
Thickness	mm	3.0 to 90 cross section (round/square)
Standard Length	Mtr.	100 (3-10mm), 50 (12-25mm), 20 (30-50mm) & 10 (60-90mm)

Typical 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.

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.

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

INM065

INMARCO STYLE 140

CERAMIC PACKING

STYLE 140 is a dry non asbestos cover on cover braided packing. The yarn is manufactured from inorganic fibrous material made from refractory oxides. The packing is highly resistant to heat. This is electrically and thermally insulating.

STYLE 140 is a packing which is not only thermal resistant but also chemical resistant. It is thermally stable and is highly resilient.

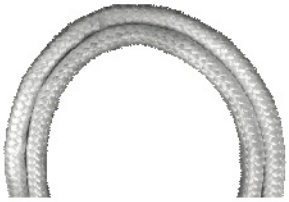
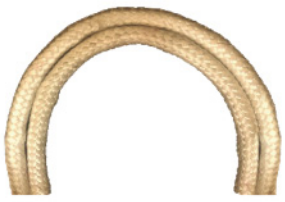
STYLE 140 is non health hazardous, non toxic and eco friendly. This packing can effectively be used in gaseous application as well as in liquid and viscous chemicals but are suitable for static applications only.

PROPERTIES	VALUES
pH	1 - 13
Temperature (°C)	+550°C
Thermal Conductivity	0.20 W/MK (@ average 550°C)
Loss on Ignition	1% max. @ 850°C
Size	3mm² to 90mm²

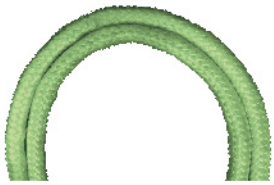
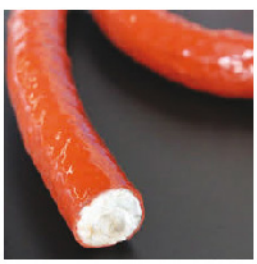
Service Media:
Super heated and Saturated steam, All non oxidizing liquids and gases, Dyes &Chemicals, etc.

Typical Application:
Furnace & Oven doors, boiler door, Peep & Inspection hole, Flange Grooves, Exhaust Steam Pipes, Kiln, etc.

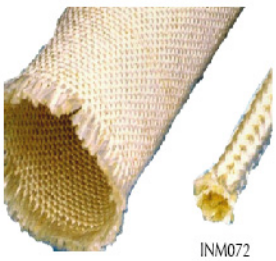
ROPES & SLEEVES

Product Type	Description	Operational Parameters
 INM066 **INMARCO STYLE 124**	**FIBERGLASS BRAIDED ROPE** STYLE 124 is a braided rope made from premium texturized electrical and chemical resistant special fiberglass in cover on cover braid. STYLE 124 is of high tenacity and is 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 is also available with SS wire/inconnel wire reinforced to resist higher pressure and static load. **Style Index:** Style / Description / Temperature S-124 / Glass Fibre Packing / -240°C to 550°C S-124T / Graphite Dispersed Glass Fiber Packing / -240°C to 550°C S-124F / Indian® PTFE Dispersed Glass Fiber Packing / -240°C to 550°C S-124I / Glass Fiber Packing Reinforced with Inconnel wires/SS wires / -240°C to 550°C S-124IF / Glass Fiber Packing Indian® PTFE Dispersed Reinforcement with Inconnel wires/SS wires / -240°C to 550°C S-124G / Graphite Dispersed Glass Fiber packing Reinforced with Inconnel wires/SS wires / -240°C to 600°C	PROPERTIES / UNIT / VALUES Max. Working Temperature / °C / -240 - 500 Loss on Ignition (@ 850°C) / % / 1 Thermal Conductivity (@ 550°C) / W/m-K / 0.2 Thickness / mm / 3.0 to 100 cross sections (round/square) Standard Length / Mtr. / 100 for cross sectional size 3 - 10mm; 50 for cross sectional size 12 - 25mm; 20 for cross sectional size 30 - 50mm; 10 for cross sectional size 60 - 90mm **Typical Application:** Furnace doors, Fill glass flanges and kiln cover, Chemical glass flanges in exhaust chimneys, Equipment handling highly corrosive alcohol and solvents except HF HCL and hot phosphoric acid. **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. Note: Custom thickness and widths possible, please contact our technical team foryour 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 below tablefor ordering.
 INM067 **INMARCO STYLE 126**	**SILICA ROPE** 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 exceed 1000°C. These ropes do not brittle and does not lose its properties. **Advantages:** *Non toxic, non health hazardous. *Environmental friendly.	PROPERTIES / UNIT / VALUES Composition - SiO_2 / % / 94-96 Max. Working Temperature / °C / 1100 Loss on Ignition / % / 7-12 Melting Point / °C / 1600 Average Density / Kg/cm³ / 700-900 Cross sectional size / mm / 3.0 to 90 cross section (round/square) Standard Length / Mtr. / 100 (3-10mm), 50 (12-25mm), 20 (30-50mm) & 10 (60-90mm) **Typical 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. **Service Media:** Superior heated and saturated steam, non oxidizing liquids and gases, hot blast, etc. Note: *Custom sizes and lengths possible, please contact our technical team for yourrequirements. *Please indicate cross section required in square or round.

ROPES & SLEEVES

Product Type	Description	Operational Parameters
 INM068 **INMARCO STYLE 168**	**HYBRID ROPE** STYLE 160 an excellent hybrid combination non-asbestos packing rope for static sealing applications. The packing has a central core of inorganic bulk fibre and outer braided jacket with gas & heat resistant inorganic filament yarn. The packing is a combination of extremely high mechanical strength and resiliency which is most important in sealing application. STYLE 160 does not cause any itching sensation on human skin as caused by conventional ceramic yarn/packing. STYLE 160 is a extremely very good packing for Coke oven door sealing, Caulking, Furnace door sealing etc because of extremely good resiliency and also extremely low loss on ignition. **Advantages:** *Extremely high thermal and electrical insulating properties. *No embrittlement or abrasion *Do not cause itching sensation on skin. *Negligible volume loss during operation due to extremely low loss on ignition. *Negligible volume loss leads to longer leakage-free operational life.	PROPERTIES / VALUES TEMPERATURE (°C) — 1000 THERMAL CONDUCTIVITY — 0.14 WMK (@ average 650°C) LOSS ON IGNITION — 5% max. @ 850°C SIZES — 12mm sq.dia – 100mm sq/dia **Typical Application:** Hot blast valve, Furnace door sealing, Coke oven door sealing & caulking, Mill door sealing, Pouring ladle, etc. **Service Media:** Super heated & saturated steam, Non-oxidising liquids and gases, Hot blast, Molten alumina, Flue gas, etc.
 INM069 **INMARCO STYLE 160M**	**HYBRID ROPE** STYLE 160M an excellent hybrid combination non asbestos packing rope for static sealing application. The packing has a central core of Inorganic bulk fibre and outer braided jacket with gas & heat resistant inorganic filament yarn. The packing is a combination of extremely high mechanical strength and resiliency which is most important in sealing application. The final braided rope is treated with a special chemical (Microlite Compound) to increase its temperature resistance and make the rope fire retardant. STYLE 160M do not cause any itching sensation on human skin as caused by conventional ceramic yarn/packing. STYLE 160M is extremely very good packing for coke oven door sealing, caulking, furnace door sealing, BF toyer assembly etc. because of extremely good resiliency and also extremely low loss on ignition. **Advantages:** *Extremely high thermal and electrical insulating properties. *No embrittlement or abrasion to metallic parent equipment. *Do not cause itching sensation on skin. *Negligible volume loss during operation due to extremely low loss on ignition. *Negligible volume loss leads to longer leakage-free operational life.	PROPERTIES / VALUES Temperature (°C) — 1400 Thermal Conductivity — 0.16 WMK (@ average 1400°C) Loss on Ignition — 10% max. @ 1400°C Sizes — 12mm sq/dia -100mm sq/dia **Typical Application:** Hot blast valve, furnace door sealing, BF toyer assembly, Coke oven door sealing & caulking, Mill door sealing, Pouring ladle, etc. **Service Media:** Superior heated and saturated steam, non oxidizing liquids and gases, Hot blast, Molten Alumina, Flue gas, etc.
 INM070 **INMARCO STYLE 180**	**HYBRID ROPE** STYLE 180 Silicone Rubber Coated Rope is a thick silicone rubber coated on a braided E-Glass fiber rope. The special coating process and superior braiding technology of E-Glass fiber makes this rope highly flexible and can give excellent performance against heat, wear and exposure. STYLE 180 this rope can withstand an intermittent temperature of 1600 °C while effectively performs in a continuous temperature of 260 °C.	PROPERTIES / UNIT / VALUES Composition — — E-Glass Braided rope treated with high density Silicone Rubber Max. Continuous Temperature — °C — 260 Max. Intermittent Temperature — °C — 1600 Availability — — ¼" to 3" Molten Splash Resistance — — Excellent Abrasion resistance — — Very Good Flexibility — — Excellent Water & Oil Resistance — — Excellent Typical Application: Smelters, casters, pot rooms, pre-heaters, pre-heater crucible, anode plants

ROPES & SLEEVES

PRODUCT TYPE	DESCRIPTION	OPERATIONAL PARAMETERS
 INM071 **INMARCO STYLE 161**	**FIBERGLASS TUBING & 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. **Typical Application:** Electrical sleeving, Cover high temperature pipes, High temperature for pipe / duct & turbine insulation, Heat treatment furnaces.	PROPERTIES / UNIT / VALUES Max. Working Temperature / °C / 550 Loss on Ignition / % / 10 Melting Point / °C / 1050 Inner Diameter / mm / 10.0 to 100 Wall Thickness / mm / 2.0 to 6.0 Standard Length / Mtr. / 30 **Note:** *Custom thickness, widths and customary coatings possible, please contact ourtechnical team for your requirements. *Available with silicone coatings.
 INM072 **INMARCO STYLE 162**	**SILICA TUBING & SLEEVES** STYLE 162 are generally used in protecting precious industrial cables with high temperature pipe lines to control energy loss. It can provide protection against weld splatter, fire, and 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. **Advantages:** *Environmentally safe, no asbestos content, non hazardous. **Typical Application:** Insulation wraps for pipes, Hoses and electrical cables, Isolated high temperature weldingprotection. Can be a good substitute upon glass tapes.	PROPERTIES / UNIT / VALUES Composition – SiO_2 / % / 94-96 Max. Working Temperature / °C / 1100 Loss on Ignition / % / 7-12 Melting Point / °C / 1600 Average Density / Kg/cm³ / 700-900 Inner Diameter / mm / 10.0 to 100 Wall Thickness / mm / 2.0 to 6.0 Standard Length / Mtr. / 30.0 **Service Media:** Superior heated and saturated steam, Non oxidizing liquids and gases, Hot blast,etc.
 INM073 **INMARCO STYLE 250**	**CERAMIC SLEEVES** STYLE 250 Ceramic Sleeves are woven by e-glass reinforced ceramic fibers. Ceramic sleeves offer 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 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 250 conforms to ISO1400 norms and is environmentally friendly, non-toxic and non health hazardous. Ceramic products conform to physical parameter including dimensions to IS14656. There is no specific standards for ceramic sleeves but are generally covered under ASTM C892. **Typical Application:** Electrical sleeving, Cover high temperature pipes, High temperature for pipe, duct & turbineinsulation, Heat treatment furnaces.	PROPERTIES / UNIT / VALUES Composition – Al_2O_3 / % / 42-46 SiO_2 / % / 52-55 Fe_2O_3 / % / 1 TiO_2 / / Traces Max. Working Temperature / °C / 1260 Melting Point / °C / 1760 Thermal Conductivity (@ average of 1100°C) / w/mk / 0.18 Effective under pH / / 2-12 Leachable Chloride content / ppm / 100 Loss on ignition (@ average of 1200°C) / % / 15 Linear Shrinkage (@ average of 1200°C) / % / 3 Inner Diameter / mm / 10.0 to 100 Wall Thickness / mm / 2.0 to 6.0 Standard Length / Mtr. / 30.0 **Note:** *Custom thickness and widths possible, please contact our technical team for your requirements.

ROPES & SLEEVES

Product Type	Description	Operational Parameters

INM073
INMARCO STYLE 182

SILICONE RUBBER COATED SLEEVE

STYLE 182 Silicone Rubber Coated Sleeve is an industrial grade sleeving material manufactured by a high grade bulk glass fiber knitted, heavily with special silicone rubber.

STYLE 182 is recommended for exposure to molten glass with a special proprietary to shed molten metal splash. Our proprietary coating can withstand continuous temperature of 1600 ºC intermittently up to 30 seconds.

STYLE 182 with its high modulus of elasticity is an ideal choice for bundling hoses, cables and tubes in high temperature environment.

PROPERTIES	UNIT	VALUES
Composition		
Max. Continuous Temperature	°C	260
Max. Intermittent Temperature	°C	1600
Availability		Up to 5"
Molten Splash Resistance		Outstanding
Abrasion resistance		Good
Flexibility		Outstanding
Water & Oil Resistance		Outstanding
Flame Resistance		Very Good

TADPOLE GASKET 164
INM074

NON ASBESTOS TADPOLE PACKING ROPE

STYLE 164 is manufactured from Alumino Silicate braided rope and Alumino Silicate closely woven cloth. Alumino Silicate rope is covered by Alumino Silicate cloth expanding aflap of 20mm to 100mm. The rope dia measures from 10mm round to 50mm round instandard. This rope is called as Ball. This combination of Alumino Silicate rope & clothensures perfect sealing into the flanges. The flap of the rope is inserted between the flangesand then the flange is blocked.

STYLE 164 is manufactured in length of 10mtrs to 25mtrs in standard as per the size ofthe door of the furnace. These specially designed doors are for Soak Pit Furnace orCalcination furnace generally found in Aluminium plants or Steel Plant or Copper Plant.

STYLE 164 The flap of the rope is inserted into the channel and then bolted. The rope or the ball remains exposed which does the sealing. The door is opened and closed time and again and gives a very high static load.

Operational Parameters:

PROPERTIES	VALUES
Max. Working Temperature	700°C
Loss on Ignition	1% at 800°C
Linear Shrinkage	1% at 700°C

PROPERTIES	UNIT	VALUES
Composition		
Max. Continuous Temperature	°C	260
Max. Intermittent Temperature	°C	1600
Availability		Up to 5"
Molten Splash Resistance		Outstanding
Abrasion resistance		Good
Flexibility		Outstanding
Water & Oil Resistance		Outstanding
Flame Resistance		Very Good

Typical Applications:

Soak Pit Furnace, Calcination Furnace, Annealing Furnace and different doors used in theprocess industries etc.

Service Media:

Super-heated and Saturated Steam, Non-Oxidising liquids and gases, Flue gases, Hot blast,Alumina in powder and molten form, Dyes and Chemicals etc.

Various Industries Using Tadpole Rope:

Aluminium Plants, iron & Steel Plants, Copper Plant or any other Metallurgical industries.

INMARCO STYLE 131
INM075

FIBERGLASS WOVEN TAPE

STYLE 131 is made of 100% continuous filament fiberglass and does not contain asbestos or ceramic. Tough, flexible and versatile material it can withstand temperature up to 550°C.

STYLE 131 fiberglass tape is non hazardous and it has good insulation and heat resistance properties.

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

Style Index:

Style	Description
S - 131	Plain fiberglass inter-woven tape
S – 131SS	Wire reinforced
S – 131AF	Aluminum foil backing
S – 131G	Graphite coating
S – 131SR	Silicon rubberised
S – 131V	Vermiculite coating

PROPERTIES	UNIT	VALUES
Max. Working Temperature	°C	550
Loss on Ignition	%	10
Thermal Conductivity (@ average 550°C)	w/mk	0.3
Melting Point	°C	1050
Average Density	gms/cc	1.2-1.4
Width	mm	20.0 to 100
Standard Length	Mtr	30
Thickness	mm	2.0 to 6.0

Typical Application:

Static door seal for boilers/oven/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.

TAPES

Product Type	Description	Operational Parameters

INM076

INMARCO STYLE 132

SILICA WOVEN TAPE

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 & thicknesses. These tapes are suitable in sealing and thermal insulation applications where temperatures exceed 1000°C. These tapes do not brittle and do not lose its properties. STYLE 132 silica woven taper is protected and can withstand in extreme heat, welding splatter and molten metal. The performance is extremely good and attributes resistance to fire flame.

Advantages:
*Non toxic, non health hazardous.
*Environmental friendly.

PROPERTIES	UNIT	VALUES
Composition – SiO_2	**%**	**94-96**
Max. Working Temperature	**°C**	**1100**
Loss on Ignition	%	7-12
Melting Point	**°C**	**1600**
Average Density	Kg/cm^3	700-900
Width	**mm**	**10.0 to 100**
Thickness	mm	2.0 to 6.0
Standard Length	**Mtr.**	**30.0**

Typical Application:
Insulation wraps for pipes, Hoses and electrical cables, Isolated high temperature welding protection. Can be a good substitute upon glass tapes.

Service Media:
Superior heated and saturated steam, Non oxidizing liquids and gases, Hot blast,etc.

Note:
*Custom sizes and lengths possible, please contact our technical team foryour requirements.

INM077

INMARCO STYLE 240

CERAMIC WOVEN TAPE

STYLE 240 Ceramic Woven Tape 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 is environmentally friendly, non-toxic and non health hazardous. Ceramic products conform to physical parameter including dimensions to IS 14656. There are no specific standards for ceramic fibre 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.

Style Index:

Style	Description
S-240E T	E-Glass reinforced impregnated with Inflacon® to enhance abrasion resistance and density.
S-240E V	E-Glass reinforced impregnated with special synthetic dispersion to enhance density and temperature resistance.
S-240 ST	Stainless Steel reinforced impregnated with Inflacon® to enhance abrasion resistance and density.
S-240 SV	Stainless Steel reinforced impregnated with special synthetic dispersion to enhance density and temperature resistance.

PROPERTIES	UNIT	VALUES
		Style 240-E/240-S
Composition – Al_2O_3	**%**	**42-46**
SiO_2	%	52-55
Fe_2O_3	**%**	**1**
TiO_2		Traces
Max. Working Temperature	**°C**	**1260**
Melting Point	°C	1760
Thermal Conductivity (@ average of 1100°C)	**W/m-°K**	**0.18**
Effective under pH range	pH	2-12
Leachable Chloride content	**ppm**	**<100**
Loss on Ignition (@average of 1200°C)	%	15max.
Linear Shrinkage (@ average 1200°C)	**%**	**3**
Average Density	Kg/m^3	600-800
Thickness	**mm**	**2.0 to 6.0**
Standard Length	Mtr.	30
Width	**mm**	**2.0 to 200**

Typical 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.

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.

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

FABRICS

Product Type	Description	Operational Parameters

INM078

INMARCO STYLE 142

SILICA FABRIC

STYLE 142 is woven from 96% SiO2 silica fibers. These fabrics are time tested and proven to perform in extreme heat condition. 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.

Advantages:

*Low halogen and soluble chlorides.

*Does not contain asbestos or ceramic.

*Safe, suitable for ceramic refractory applications.

PROPERTIES	UNIT	VALUES			
		Style 142 (600S)	Style 142 (600V)	Style 142 (1000S)	Style 142 (1000V)
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	°C	1650	1650	1650	1650
Surface Density	g/m²	600±50	600±50	1300±100	1300±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 (Warp)	Kgf	1078 (110)	1274 (130)	1764 (180)	1764 (180)
Tensile Strength (Weft)	Kgf	784 (80)	980 (100)	1372 (140)	1372 (140)
Width	cm	94-100	94-100	94-100	94-100
Coating	–		Vermiculite 2 side		Vermiculite 2 side
Colour	–	Off-white	Tan	Off-white	Tan

Typical Application:
Molten metal splash, Valve Covers, Welding blankets & curtains. Insulaiton of furnaces, Thermal and Fire protection in machine, Building, Shipbuilding and Aviation. Stree remover in pipe welding. Insulation for turbines and insualtion of mufflers in automotive. Fire resistant doors and firemen protection.

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.

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

INM079

INMARCO STYLE 225

FIBERGLASS FABRIC COATED WITH ALUMINIUM FOIL

STYLE 225 is used 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's 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.

Typical Application:
*Excellent heat radiation reflection.
*Resistance to abrasion and cracks.

PROPERTIES	UNIT	VALUES
Temperature Resistance Fabric	°C	750
Temperature resistance Coating	°C	200
Finish		Aluminium Foil
Weight	gr/m²	200
Coating Weight	gr/m²	1 x 70
Thickness	mm	0.18
Width	cm	100
Roll Length	Mtrs.	100

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

INM080

INMARCO STYLE 500

FIBERGLASS FABRIC

STYLE 500 fiberglass fabric has excellent resistance to high temperature superior mechanical strength provides acoustics insulation and is 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.

STYLE 500 has perfect insulating characteristics as well as excellent abrasion and tear resistance.

Style Index:

Style	Description
S – 500	E-glass woven fabric
S – 500S	Silicone coated
S – 500V	Vermiculite coating

PROPERTIES	UNIT	VALUES
Max. Working Temperature	°C	550
Loss on Ignition	%	10
Melting Point	°C	1050
Average Density	9/cc	1.2
Thermal Conductivity	wmk	0.3
Width	mm	1000-1010
Thickness	mm	3, 4,5 & 6

Note:
*Custom widths possible, please contact our technical team for yourrequirements.
*These fiberglass fabrics can be treated with different coatings or finishes toprecisely meet customer specification.

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

FABRICS

PRODUCT TYPE	DESCRIPTION	OPERATIONAL PARAMETERS

INMARCO STYLE 500M

INM081

FIBERGLASS FABRIC

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. These 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 cloths 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 textiles can effectively be used in gaseous applications as well as in liquid and in viscous chemicals but are suitable for static applications only.

PROPERTIES	UNIT	VALUES
Max. Working Temperature	**°C**	**1000**
pH Range	pH	1-13
Thermal Conductivity (@ average of 850°C)	**w/mk**	**0.2**
Loss on Ignition (@ average of 850°C)	%	8
Thickness	**mm**	**3**
Standard Length	Mtr.	25-30
Average Density	**gms/cc**	**1.3-1.5**
Width	mm	1000-1010

Typical Application:
Furnaces, Ovens, Boilers, Flanges, Grooves, Casting cover, Exhaust steam pipes, Welding blankets.

Service Media:
Superheated and saturated steam, Non oxidizing liquids and gases, Hot blast, Alumina in power and molten form, Dyes and chemicals, Mild acid & Alkalis.

Note:
*Custom widths possible, please contact our technical team for yourrequirements.
*These fiberglass fabrics can be treated with different coatings or finishes to precisely meet customer specification.

INMARCO STYLE 550

INM082

CERAMIC FABRIC

STYLE 550 Ceramic Fabrics are manufactured by weaving ceramic yarns. These yarns are manufactured from inorganic refractory oxides in fibrous from 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 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 550 conforms to ISO14000 norms and is environmentally friendly, non-toxic and non health hazardous. Ceramic products conform to physical parameter including dimensions to IS 14656. There are no specific standards for ceramic fibre 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.

Style Index:

Style	Description
S - 550	Plain E-Glass reinforced inter-woven ceramic fabric.
S - 550ST	E-Glass reinforced impregnated with Inflorex® to enhance abrasion resistance and density.
S - 550SY	E-Glass reinforced impregnated with special synthetic dispersion to enhance density and temperature resistance.
S - 550ST	Stainless Steel wire reinforced impregnated with Inflorex® to enhance abrasion resistance and density.
S - 550SY	Stainless Steel wire reinforced impregnated with special synthetic dispersion to enhance density and temperature resistance.

PROPERTIES	UNIT	VALUES
Composition – Al_2O_3	**%**	**42-46**
SiO_2	%	52-55
Fe_2O_3	**%**	**1**
TiO_2		Traces
Max. Working Temperature	**°C**	**1260**
Melting Point	°C	1760
Thermal Conductivity (@ average of 1100°C)	**W/m-°K**	**0.18**
Effective under pH range	pH	2-12
Leachable Chloride content	**ppm**	**<100**
Loss on Ignition (@average of 1200°C)	%	15max.
Linear Shrinkage (@ average 1200°C)	**%**	**3**
Width	mm	1000
Thickness	**mm**	**2.0 to 6.0**
Standard Length	Mtr.	30

Typical Application:
Thermal power station, iron & steel plants, Aluminum plants, Glass & ceramic industries, refineries, fertilizers, Cement industries, etc.

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.

Note:
*Custom thickness and widths possible, please contact our technical team foryour requirements.

FABRICS

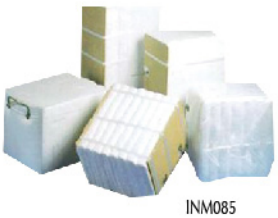
PRODUCT TYPE	DESCRIPTION	OPERATIONAL PARAMETERS
 INM083 **INMARCO STYLE 260**	**CERAMIC NEEDLE BLANKET** STYLE 260 Ceramic Needle Blanket is lightweight manufactured from refractory ceramic fibers, the special spinning method applied in manufacturing these blankets offer high flexibility and insulating properties. STYLE 260 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 it's approved for use against cellulosic and hydrocarbon fires and for dry wrapping of structural steel.	**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. **Note:** *Custom thickness and widths possible, please contact our technical team for your requirements. **Typical Application:** Crude oil, Reformer & Pyrolosis 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.
 INM084 **INMARCO STYLE 184**	**SILICONE RUBBER COATED GLASS FABRIC** STYLE 184 is a glass fiber heavily coated with high grade Silone rubber designed to requirements of industrial heat, molten splash, flame with excellent resistance to moisture, oils & sunlight. STYLE 184 can withstand occasional exposure to flames.	**Typical Application:** Valve insulation covers, weld protection curtains, to protect the equipment and men from motlen splash, can be used as fabric expansion joints.

PROPERTIES	UNIT	VALUES
Max. Working Temperature	**°C**	**1260**
Loss on Ignition	%	10
Melting Point	**°C**	**1760**
Average Density	Kg/m³	64/96/128
Thermal Conductivity	**w/mk**	**0.18**
Width	mm	610
Standard Length	**Mtr**	**3800/7620**
Thickness	mm	12.5 to 50.0

PROPERTIES	UNIT	VALUES
Composition		treated with high density Silicone Rubber
Max. Continuous Temperature	°C	260
Max. Intermittent Temperature	°C	1150
Availability		1mtr. x 30mtrs.
Motlen Splash Resistance		Very Good
Abrasion Resistance		Very Good
Flexibility		Outstanding
Water & Oil Resistance		Outstanding
Flame Resistance		Very Good
Weld Spatter		Excellent
Color		Red

FABRICS

PRODUCT TYPE	DESCRIPTION	OPERATIONAL PARAMETERS



INM085

INMARCO STYLE 282

CERAMIC FIBER MODULE

STYLE 282 Ceramic Fiber Modules are made from ceramic fiber blanket stacked with cut edges exposed, and anchor systems to enable quick, easy and efficient installation in most furnace linings.

STYLE 282 These prefabricated modules are designed to meet the thermal insulation requirements of high temperature furnaces.

STYLE 282 Classification temperature : 1260 ℃ , 1430 ℃ .

STYLE 282 Generally, based on different requirements there are three regular types available.

A. Slicing Block (flat surface)
B. Folded Block
C. Module (with anchors)

PROPERTIES	VALUES		
Composition(%)	STD RCF MODULE	HP RCF MODULE	HZ RCF MODULE
Al_2O_3	≥43	44-47	-
$Al_2O_3+SiO_2$	≥96	≥98	-
$Al_2O_3+SiO_2+ZrO_2$	-	-	≥99
ZrO_2	-	-	≥15
Fe_2O_3	<0.5	≤0.3	≤0.2
Na_2O+K_2O	≤0.5	≤0.2	≤0.2
Classification Temperature (℃)	1260	1260	1430
Permanent heating Linear Change (%)	1000℃ x 24hs-2.5	1100℃ x 24hs-2.5	1350℃ x 24hs-2.5
Density (Kg/M³)	160 ~ 240		
Thermal Conductivity (W/mk)			
400°C	0.090	0.100	0.118
500°C	0.119	0.120	0.149
600°C	0.152	0.175	0.172
Product Specifications	300mm x 300mm x 125mm ; 300mm x 300mm x 300mm All sizes can be customized as per your requirement		

Typical Application:
Heating furnace and cracking furnace in Petrochemical Industry.
Heating furnace, Annealing furnace and roller hearth furnace in Metallurgical
Industry.
Soaking furnace, homogenizing furnace in Aluminium Industry.
Tunnel kiln, intermittent kiln and calcining kilin in Ceramics Industry.
Wast gas recovery, Combustion Chamber.

INM086

INMARCO STYLE 290

CERAMIC FIBER BOARD

STYLE 290 Ceramic fiber boards are high performance insulation products manufactured from ceramic fiber bulk and binders, with unique shot removing and vacuum forming process, they offer low thermal conductivity, high temperature stability, uniform density and excellent resistance to thermal shock and chemical attack.

STYLE 290 Ceramic fiber boards are widely used in various high temperature applications in furnaces, kilns etc. additional hardness and strength can be reached with post treatments. available in variety of compositions, densities, sizes and post treatments combinations.

STYLE 290 Classification temperature : 1050˚C , 1260˚C , 1430˚C.

PROPERTIES	VALUES			
Permanent heating Linear change (%)	LNTX-1050B 950℃ x 24hs-2.5	LNTX-1260B 1000℃ x 24hs-2.5	LNTX-1260HPB 1100℃ x 24hs-2.5	LNTX-1260B 1350℃ x 24hs-2.5
Water Content (%)	≤1			
Loss of Ignition (wt%)	≤7			
Density (Kg/M³)	220~300	280~380	300~380	300~380
Al_2O_3	≥40	≥43	44-47	-
$Al_2O_3+SiO_2$	≥95	≥96	≥98	-
$Al_2O_3+SiO_2+ZrO_2$	-	-	-	≥99
ZrO_2	-	-	-	≥15
Fe_2O_3	<0.5	<0.5	≤0.3	≤0.2
Na_2O+K_2O	<0.9	-	-	-
Thermal Conductivity (W/mk)				
200°C	0.082	0.074	0.055	0.078
400°C	0.102	0.092	0.073	0.102
500°C	0.110	0.103	0.086	0.116
600°C	0.133	0.127	0.105	0.135
Cold Crushing Strength	0.2	0.2	0.15-0.2	0.12
Product Specifications	Lenght : 900mm / 1000mm/ 2400mm Width: 500mm / 600mm / 1000mm / 1200 mm Thickness: 3mm~125mm All sizes can be customized.			

Features:
High temperature stability, low thermal conductivity, low heat storage, non-wetting to molten aluminium, close tolerance with excellent surface finish, easy to cut, easy to drill or saw.

INMARCO®

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