

Alex For Fibers Equipment
And Thermal Insulation

الإسكندرية لتجهيز الألياف
والعوازل الحرارية
ومهمات المصانع



Alex GROUP
Insulation
Alex Insulation

INSULCON

ISOFLON
PRODUITS PTFE

THERMOHEAT

KLINGER

IZOCAM

Europolit

CARRARI
PACKINGS AND GASKETS

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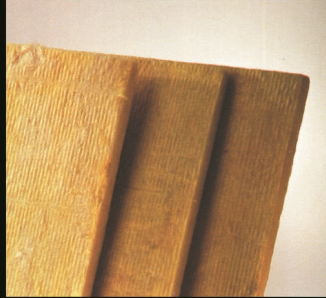
Alex Insulation

Glass Wool



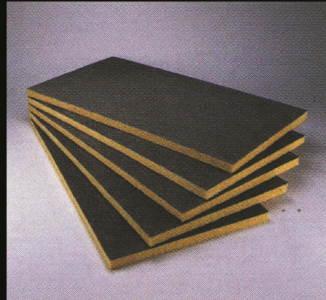
Glass Wool Balmket :

Thick: 25 mm – 50 mm
Density: 13 – 32 Kg/m³
Dim.: 120 x 2000 cm
Temp.: Max. 250 C
Facing: unfaced / Alu. / Foil
App.: For thermal and sound insulation of attics, Steel structured industrial buildings, double-cladded, acoustic treatment of suspended ceiling, poultry farms and farms and other farm buildings.



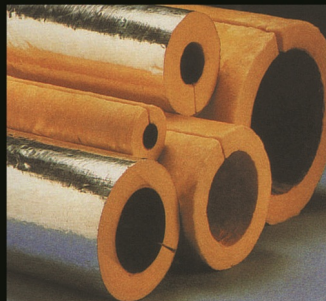
Glass Wool Board:

Thick: 15 mm – 100 mm
Density: 50 – 96 Kg/m³
Dim.: 60 x 120 cm
Temp.: Max. 250 C
Facing: unfaced / Alu. .
App.: For water-repellant, Silion-spread core insulation for double wall system providing thermal and sound insulation.



Façade Board:

Thick: 15 MM – 50 MM
Dim.: 60 x 120 cm
Temp.: Max. 250 C
Facing: yellow and black glass tissue.
App.: Under exterior wall cladding as water repellent, silicone spread thermal and sound insulation. , Insulation for air - conditioner duct.



Glass Wool Pipe :

Thick: 25 mm – 40 mm – 50 mm
Density: 85 – 96 Kg/m³
Dim.: 1/2" – 14"
Temp.: Max. 250 C
Facing: unfaced / Alu. / Foil
App.: For thermal insulation of industrial piping, cooling and chilling systems, piping of solar heating system up to 250 C, against frost in piping and for sound insulation purposes in pressurized piping.



Armaflex:

Thick: 6mm – 25 mm
Types: (Sheets / Pipes)
Temp.: - 450 C + 116 C
Shapes: Yellow and black glass tissue.
App.: for thermal insulation of industrial plants, cold store insulations, refrigeration, air conditioning and low temperature heating system, pumping and sanitary installations with its high water vapour diffusion resistance to prevent condensation and save energy.

Rock Wool



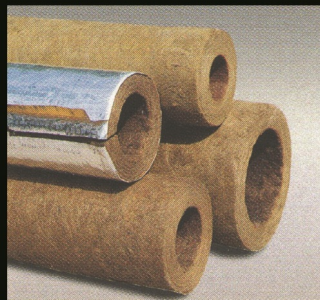
Rock Wool Balmket :

Thick: 30 mm – 150 mm
Density: 50 – 150 Kg/m³
Dim.: Width 100 cm (Standard)
Temp.: Max. 850 C
Facing: unfaced / Alu. / Wired.
App.: For, Thermal and sound insulation of equipment and installation and pipelines , fire protection in all kinds of ship and sea constructions, Cofferdam walls and doors.



Rock Wool Board:

Thick: 30 mm – 150 mm
Density: 50 – 150 Kg/m³
Dim.: 60 x 120 cm
Temp.: Max. 850 C
Facing: unfaced / Alu./ Gypsum board
App.: For thermal, sound and fire insulation in lightweight partitions walls, Exterior walls of existing buildings applied on the interior, heated and inhabited attic spaces applied between the rafters.



Rock Wool Pipe :

Thick: 25 mm – 50 mm – 80 mm – 100 mm
Density: 1/2" – 14"
Temp.: Max. 850 C
Facing: unfaced / Alu.
App.: For thermal insulation of industrial piping up to 850 C piping of central heating systems, against frost in piping and sound insulation purposes in pressurized pipings.



Loose Rockwool :

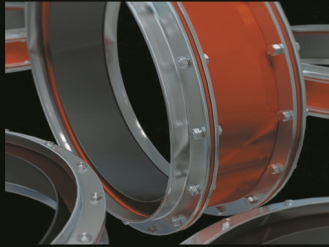
Temp.: Max. 850 C
App.: By stuffing into the cavities of double-shelled equipment or amorphous spaces up to 850 C with a density of app. 80 KG/M³. For thermal, Sound and fire insulations and Brake.



Flexible duct connectors:

Types: (Canvaz / Duct / Self-adhesive fabric pads / cladding accessories / fastening and fixing accessories / air distribuion / Foam spray)

Expansion Joints



Fabric Expansion joint:

Filler: (Ceramics, Glass Fibers, PTFE, Silicate, Silicone)
 Measurement: upon Request
 Temp.: up to 2000 F
 App.: Expansion Joints are non-metallic flue duct expansion joints or flexible connectors which, when properly designed, provide stress relief for piping and ducting systems by absorbing thermal growth and shock, isolating mechanical vibration and allowing for misalignments.



Metal Expansion Joint :

Diameter: 1/2" – 96"
 Measurement: upon standard measurements
 Temp.: up to 1500 F
 App.: are compensating elements for thermal expansion and relative movement in pipelines, containers and machines. They consist of one or more metal bellows, connectors at both ends, and tie rods that depend on the application. They are differentiated according to the three basic types of movement: axial, angular and lateral expansion joints..



Rubber Expansion Joint :

Diameter: 1/2" – 96"
 Measurement: upon request
 Temp.: up to 400 F
 App.: uses in differences in temperature of Materials handled, and differences in composition. Expansion joints absorb this movement and Eliminate the danger of buckling or pulling apart with The high replacement costs that would result. Pumps, compressors and other pulsating equipment Generate noise and vibration



Metal Hose:

Diameter: 1/4" – more than 30"
 Temp.: up to 500 F
 App.: use for absorbing vibration, misalignment, piping expansion or contraction and equipment motion, braiding enables use at high pressure with vibration, the annular corrugation use to optimal flexibility for each size of hose .



Wool & Polyethylene Felt:

Temp.: -80 – 200 C
 Types: (Bag filter / Air purifier / Woven filter)
 App: Felts uses as dust collector, air fresh filtering, oil and industry liquid filtering, Smoke treatment, air filtering in turbines.

Gaskets and jointing sheets



Metallic Jointing sheets :

Thk: 0.5 mm – 5 mm
 Dim.: 1.5 x (1m / 1.5m / 2m / 2.25m)
 Temp.: up to 550 C
 App.: Used for various kinds of equipments, Suitable for low and high pressure in steam, water, oils, Fuels and inert gases for low and high conditions.



Non-Metallic Jointing sheets :

Thk: 0.5 mm – 5 mm
 Dim.: 1.5 x (1m / 1.5m / 2m / 2.25m)
 Temp.: up to 450 C
 App.: Non-asbestos and Aramid composition Used for various kinds of equipments, Suitable for low and high pressure in steam, water, oils, Fuels and inert gases for low and high conditions.



Graphited sheet & Paper:

Thk: 0.5 mm – 5 mm
 Temp.: up to 800 C
 App.: Flexible Graphite products are ideal for sealing those difficult high temperature applications, chemical applications, and low bolt load applications. Nothing seals as well as flexible graphite



Spiral wound Gaskets :

(With inner and outer Rings)
 Thk: Upon customer request
 Metal Materials: Stainless, Alu, Steel, Copper, CarboSteel ...Etc
 Filler material: Ceramic / Flexible graphite / PTFE
 App.: (Metallic and Non Metallic filler, It is suitable for sealing spots where the alteration of temperature and pressure are frequent. It can used as the static sealing element of pipe, valve, pump, thermal exchange, condensing tower, plain hole and manhole of flange.



Without inner and outer Rings:

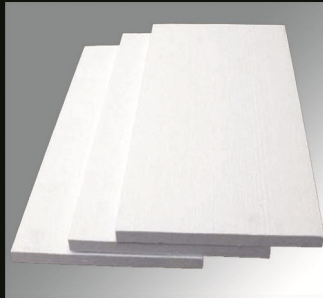
Thk: Upon customer request
 Filler material: Carbon Steel, Copper, Alu, ...Etc
 App.: Ring joint gasket manufactured from solid metal in a variety of shapes for high pressure and temperature or high corrosive applications, as it used for high assembly loads over small area, thus producing high seating stresses.

Ceramic Fibers



Ceramic Fiber Blanket :

Thk: 25 MM – 50 MM
 Dens.: 96-128-160 kg /m³
 Temp.: 1260 C – 1600 C
 App.: This material is lightweight and has very low thermal conductivity, excellent handling strength, low heat storage, thermal shock resistance corrosion resistance (commonly used acid and alkali). It also provides excellent sound absorption and excellent fire protection.



Ceramic Fiber Board & Paper:

Thk: 12 MM – 50 MM
 Temp.: 1260 C – 1600 C
 App.: they are featured with high temperature stability, low thermal conductivity, consistent density, and excellent resistance against thermal shock and chemical attack. Ceramic fiber board from, also resists oxidation and reduction.



Ceramic Fiber Bulk:

Temp.: 1260 C – 1450 C
 App.: fibers exhibit excellent chemical stability and resistance to attack from most corrosive agents. Exceptions include hydrofluoric acid, phosphoric acid and strong alkalis. Fiberfrax fibers also effectively resist oxidation and reduction



Ceramic Fiber Textile :

Types: (Yarn/ Cloth/ Rope/ Tape/ Sleeve)
 Temp.: 1260 C – 1450 C
 App.: Ceramic Textiles are typically used in aerospace, outer space and industrial applications. Because the filaments are continuous and strong, Ceramic Textiles can be produced without the aid of other fibers or wire inserts. Roving's, yarns, fabrics, tapes, sleeveings and sewing threads are typical products.



Calcium Silicate products:

Temp.: Up to 1000 C
 Types: (Model/ Board/ Tube)
 App.: High temperature insulation, Passive fire protection, Acid mine drainage remediation, as a product of sealants.

Packings



PTFE Packing:

Types: (Graphited/ Glass Fiber/ Acrylic/Armid)
 Pressure: up to 250 Bar
 Temp.: up to 280 C
 App.: Recommended for use in rotational pumps, piston pumps and in industrial fittings, for instance in chemical industry. Resistant to the impact of water, steam, oils, fuels, solvents, acids and alkali, except for strong oxidants.



Graphite Packing :

Types: (Reinforced/ With PTFE/ Carbonized)
 Pressure: 200 Bar – 500 Bar
 Temp.: 450 C – 650 C
 App.: Graphite packing is used in rotor pumps, working with high speed up to 25 m/s, mainly in the chemical and power industries, for chemically aggressive agent pumps in the power industry, sealing high-temperature pumps feeding boilers in the petrochemical industry.



Graphite with Aramid and PTFE:

Pressure: up to 300 Bar
 Temp.: up to 280 C
 App.: The packing is used in rotational pumps and other devices operating in the environment of water, hot water, solutions of salt, most acids and alkali, fuels, oils and solvents and suspensions of solid particles in these utilities. Main recipients are: chemical, artificial fertilizers and food industry.



Mechanical Seals :

Types: (Cap sealing / Adhesive / bung / shaft seal / coating / compression seal fitting/ diaphragm seal / etc)
 App.: Mechanical seal is a sealing device for any rotating equipment which prevents the inner fluid from leaking through the clearance between the rotating shaft and the housing case. There are various types of mechanical seals for each application and operating condition of the equipment but in principle shaft.



Phenolic Cloth Products:

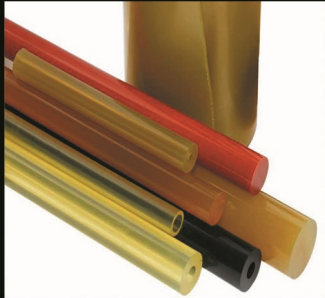
Temp.: up to 180 C
 Types: (Sheet , Rod, Tube)
 App.: are made by a laminated material through the hot pressing of two or more layers of cotton fabric or Glass fibers, reinforced with synthetic thermoreactive resins of phenol-formaldehyde type, cresol-formaldehydes, mixture of these resins or their modifications.

PTFE & Plastic



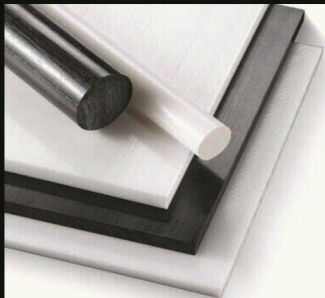
PTFE Products:

Types: (Sheet , Rod, Tube, Gaskets, Model)
Temp.: Up to 280 C
App.: PTFE is a soft, low friction fluoropolymer with outstanding chemical resistance and weathering resistance. PTFE is stable at temperatures up to 500°F and it is often used in high temperature environments. PTFE also has excellent electrical insulating properties, as it is used in food industries.



Polyurethane Products:

Types: (Sheet , Rod, Tube)
Temp.: up to 125 C
App.: is a semi-rigid, room temperature curing, flame retardant polyurethane resin system. It is specifically designed for the cost effective encapsulation of a variety of low to medium voltage electrical and electronic applications. It offers medium viscosity, based cleaning chemicals, motor oil, lubricants and most dilute acids and alkalis, also used in koppeln and rolling of machines.



Plastic Parts:

products : (PE / PP / PVC / HDPE / POM / PMMA / PEEK / Nylon)
Temp.: 250 F
Types: (Sheet / Rod / Tube)
App.: Excellent bearing and wear properties / Strong and stiff/ Good chemical resistance & Easy to machine, Reduced noise, weight, & wear on mating parts compared with many traditional metal bearing materials, dielectrical properties and hardly inflammable.



Fiber Glass Textile:

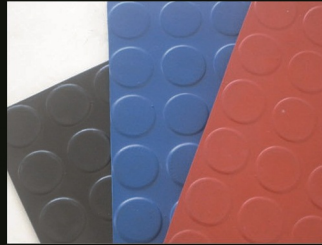
Temp.: up to 550 C
Types: (Cloth , Packing, Tape, Sleeve, Rope)
App.: Fiberglass Resin is a premium grade polyester resin. It is designed for use with fiberglass mat or cloth to repair and restore as well as create custom molded automotive designs. USC Fiberglass Resin is fast curing, tack free, waterproof and impact resistant. Its heavy formula wets out mat and cloth quickly and provides excellent workability



Fiber Glass Coating:

Thk: 0.5 MM – 6 MM
Temp.: up to 250 C
Types: (Alu. , Silicon, PTFE, PVC)
App.: excel in High Temp. Silicone adds abrasion resistance and waterproofing to the fabrics.
PTFE is inert against most acids and bases and Chemical resistance, By addition to the dryers and water evaporation.
Alu., an excellent vapor barrier against moisture and radiant energy barrier in very hot condition.

Rubber Products



Rubber Rounded Sheet:

Colors: (Black, grey, blue, green)
Thk: 2 MM – 6 MM
Temp.: Up to 120 C
App.: it used for middle pressure, water-proof, anti-slip features, and that is applied for decorations, pavement and grounds.



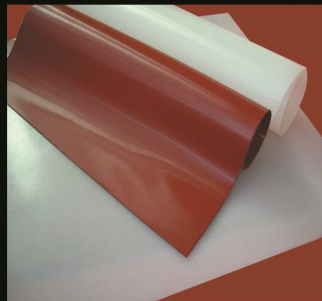
Acidic Rubber :

(Natural Acids/ Black Acids)
Temp.: up to 120 C
App: Punch all kinds of anti acid & alkali corrosion seals, washers and pipe lines in the chemical enterprises, the pavement of table in the laboratory.



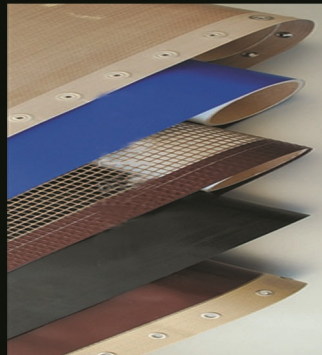
Rubber Mat Sheets / Neoprene / EPDM:

Filler: (Cloth insertion, metal mesh, Acidic and alkali)
Colors: (Black , Red , Grey , White)
Thk: 2 MM – 50 MM
Temp.: Up to 120 C
App.: according to the requirements of technical parameters, applied to manufacture all kinds of sealing, decoration, pavement, rings.
Good technical performance to work surrounding with high anti-shock and strong face requirement, as it is wide range temp., chemical resistance.



Silicon Products :

Colors: (Clear, Red)
Thk: 2 MM – 6 MM
Temp.: Up to 200 C
App.: high temperature bearing performance, good oil resistance, apply to punch oil seals, washer, as it used for medical , chemical and food industries.



PTFE & Silicon fabrics:

Types: (Adhesive / Coating / Mesh)
Temp: - 170 C up to 260 C
App: Separating films of PTFE and PTFE/fiberglass fabrics for use in machines for polymer packaging L-sealers, form/fill sealing, wrapping, blister packing, bag welding, Bag filling, ... ETC

Alex GROUP Insulation

Alexinsulation Group, is one of the biggest companies specialized in thermal insulation & factory Manufacturing products, It was founded in 1971, in Alexandria.

Our strategy is to supply our clients with high quality products and to offer them excellent service. inside and outside Egypt

Our main products are sealing material, heat insulation & fire proof material, which are used in chemical industries, petroleum, electrical power & mechanical manufacturing.

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