

FIBERGLASS-BASED PRODUCTS



Fiberglass Square Section Gasket

They are fully braided, dense, square/rectangular section packings with high tensile strength and performance.

It is produced by braiding glass fiber ropes in the form of hair braids, in cross-sections generally varying between 5-100

Roll lengths can vary from 25-50-100 m depending on the cross-section size. It is knitted in a square section with 3 and 4 cross stitches.

	Average Weights of Standard Measures in One Meter											
Cut mm²	4x4	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	25x25	30x30	
Gr. / m	25	40	70	100	140	180	270	340	450	600	850	

Graphite Fiberglass Gasket

The glass fiber packing is then subjected to the graphite coating process. Graphite coating reduces friction loss.

Glass fiber packing is widely used in static seal applications. It has thermal insulation and fire prevention features in systems such as containers, heaters, manhole covers and pipes. It is a material suitable for environments that are neutral in terms of chemical properties such as water, steam, air, oil and similar.

VALUE	TECHNICAL SPECIFICATIONS					
VALUE	Fiberglass gasket	GraphiteFiberglass Gasket				
Operating Temperature	450°C~550°C	450°C ~ 550°C				
PH Ratio	5-9	5-9				
Intensity	0.9~1.1 g/cm3	1.1~1.3 g/cm3				

										-	
Α	VERA	GE W I	EIGHT	S OF S'	FANDA	rd dim	iensioi	NS IN C	INE MET	ER	
Section mm ²	4x4	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	25x25	30x31
Gr. / m	40	50	80	120	160	250	310	400	450	700	900

Fiberglass Woven Strip

Glass fiber products are made of high temperature resistant glass fibers for environments with an operating temperature of 537 °C. It has excellent thermal resistance, high tensile strength, low thermal permeability and very good chemical resistance. It is durable, resistant to mold and harmless to health. Fiberglass products are an ideal material for industrial insulation, sealing felt and gasket applications. Main Characteristics:

+ Heat, spark and flame resistance + Chemical resistance + Low thermal transmittance + High tensile strength, no tensile elongation + High dielectric strength + Does not pose a danger to health

Fiberglass Fabric



resistance, low thermal permeability coefficient, corrosion resistance, high dust retention and high filtration. It is not harmful to human health and is a very good alternative to asbestos material.

Texturized glass fiber fabric is made of bulky yarns obtained by texturing glass

fiber rovings with high pressure air. It has features such as high temperature

Scope of application

All types of thermal insulation and protection. Expansion joints, safety equipment, pipe insulation . In the ship industry

TECHNIC	AL SPECIFICATIONS		Operating	- 70 °C ~ 550 °C		
W eaving Style	Straight		Temperature			
W eight	600 - 3000 a/m²		Tensile Strength	W eft : 1200 – 7500 N/5 cm;		
Thickness	0.80 - 5 mm	1	r chaic bu chgur	W arp : 2000 – 8500 N/S cm		
THICKIIC22	0.00 - 0 11111	-	Chemical resistance, dir	ensional stability, good thermal		
Width 1 – 1.5 m			property			
Size	30 – 50 m		Low moisture absorption ability, price advantage			

Compensator

Fabric covered compensators, take the leakage with high vibration and thermal expansion and assembly of low-pressure pipe layer and is used in some places, with the aim of achieving a high sound and heat insulation. Compensators, each consists of a plurality of layers having different physical and chemical characteristics.

Fiberglass Round Section Gasket

They are fully braided, dense, circular-section packings with high tensile strength and performance.

Glass fiber ropes are braided in the form of hair braids and are generally produced in cross-sections varying between 5-100 mm

Roll lengths can vary between 25-50-100 m depending on



Folded Pure Fiberglass Strip

Й4

15 24 40 60 80 110 150 190 230 350 500

Diameter

mm m∕grabt

The glass fiber packing is then subjected to the graphite coating process. Graphite coating reduces friction loss. Glass fiber packing is widely used in static seal applications. It has thermal insulation and fire prevention features in systems such as containers, heaters, manhole covers and pipes. It is a material suitable for environments that are neutral in terms of chemical properties such as water, steam, air, oil and similar.

Average W eights of Standard Measures in One Meter										
Section (Most x Thickness) mm x mm	20x 5	20x 3	25x5	25x 3	30x5	30x 3	40x 5	40x3	50x 5	50x3
Folded Glass Fiber Ribbon	200	120	250	150	300	180	400	240	500	300
Graphite Folded Glass Fiber Ribbon	233	140	291	175	349	209	466	279	582	349

Fiberglass Crochet Mesh



It has the feature of flexibility and lengthening due to being knitted with a different knitting technique.

T	TECHNICAL SPECIFICATIONS							
Env ironment It is especially preferred on stov e cov ers.								
Heat	600° C							
Dimensions	6 - 8 - 10 - 12 - 14 mm							

Silicone Coated Fiberglass Fabric

Silicon coated glass fiber fabric is coated with a specially crafted double-sided or single-sided silicon. High strength, flame blocking, high temperature resistance, chemical resistance, puncture. resistance, lack of toxicity, and has similar benefits.

- Applications :
- Welding blankets . Heat protection equipment
- Spatter protection equipment in a casting plant . Conveyor belt
- Expansion connections . Electrical insulation
- Chemical corrosion resistance

Aviation, Maritime, in the chemical industry, in power plants, in the automotive industry, the construction industry, industrial pipes and gaskets

TECHNIC	AL SPECIFICATIONS	Coo surface	One Side		
Silicone type	W et	W orking Temperature	- 700C ~ 3000C		
W eight	500g/m2	Resistant to ozone, oxi	lation, light, and w eather conditions		
Thick	0.5 mm	Suitability for outdoor use			
W idth	1 m, 1.2 m, 1.5 m, 2 m.	Up to 10	years of service life		

Features :

. High vibration and noise elimination . Thermal expansion compensation . 700 ° C maximum operating temperature . High flexibility . Minimum reaction conditions such as the required operating force is produced with suitable different design.



CALORE HEATING www.caloreheating.com info@caloreradiator.com

50°	С			
:m3				
N C	INE MET	ER		
18	20x20	25x25	30x30	
0	450	700	900	

SERAMIC-BASED PRODUCTS

Ceramic Seal Square Section

The high-quality ceramic yarns made from alumina-silica material are woven in a 3 and 4-strand crisscross style. This square-sectioned material possesses high temperature resistance and stability, low thermal permeability, low heat storage capacity, excellent thermal shock resistance, lightweight, and good corrosion resistance properties. It can be produced in the desired dimensions.

Average Weights of Standard Measures in One Meter

Section mm ²	4x4	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	25x25	30x30
Gr. / m	25	40	55	70	100	130	165	200	260	400	520

Ceramic Fiber Roving (Screw) Packing

Definition : Which is made of alumina-silica material is built with high quality ceramic fibers. Used for high temperature applications. Yarn stainless steel wire, can be amplified with a high alloy wire and fiberglass.



- . Oven, Chimney, Kazan, Expansion Links
- . Cable and pipe wrapping Umeda

. High temperature gasket and seal materials as

	Average Weights of Standard Measures in One Meter												
Diameter mm	Ø4	ØG	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø25	Ø30	Ø35	Ø 40
m/nr aht	15	77	36	50	55	70	140	180	220	340	48N	680	880

Ceramic Fiber Cloth, Wire / Wireless

Biodegradable ceramic fiber fabric is a fabric made from high quality tapping thread is water soluble. High temperature up to 1000 OC available. This fiber fabric of glass fiber and reinforced with stainless steel wire. This material, which adversely affect the insulating properties and comprises a combustible amount of binder at low temperatures.

Expansion connections . Security blankets and curtains . Welding blankets . Protective and insulating cover . Shield, gasket, cables and pipes as coil

TECHNICAL SPECIFICATIONS								
Reinforcement material	Glass fiber filaments							
W eaving type	Straight							
Operating temperature	1000°C							
Thick	1.5 – 5 mm							
Width	1 m, 1.2 m, 1.5 m							

Ceramic Fiber Blankets

It is made of high quality ceramic fiber. Lightweight, flexible and a wide variety of thickness, width and density can be performed.

. Industrial materials in the oven, heating equipment, high temperature in the pipe coating . Electric heating boilers, turbines and nuclear thermal insulation . In the chemical plants lining the walls, and heating equipment, high temperature reaction . Architectural coatings and heat insulation against fire

. To isolate the oven door and cover . High temperature resistant filter made materials . In waterproof shutter system . For the purpose of thermal insulation in shipbuilding

This material can withstand up to 1260 ° C. Low thermal conductivity with excellent handling strength, low thermal capacity, thermal shock resistance and corrosion resistance, has a very good sound absorption and fire protection.

TE	TECHNICAL SPECIFICATIONS								
Intensity	0.064 gr./cm³, 0.096 gr./cm³, 0.128 gr./cm³								
Planial and stress	Al2O3: % 47; SiO2: % 50,								
Linemical composition	Total: A1203 or SiO2 > % 97; Fe2O3: < % 1.0								
Specific Heat (@ 2000°F)	0.27 Kcal/(KgºC)								
Onensting Temperature	Continuous: 982 °C,								
uperauny remperature	Maximum: 1260 °C								

Ceramics Circular Seal

Which is made of alumina-silica material is built with high quality ceramic fibers. Circular the material strength and high temperature stability, low thermal conductivity, low heat storage capacity, excellent thermal shock resistance and has light weight and good corrosion resistance properties. Stainless steel wire and nickel wire reinforcement options are also availahle

. Industrial furnace closures . Chokes, High temperature pipes, Vehicles . Sealing and insulation equipment

	Ave	rage	W eig	hts of	Stand	ard Me	easure	ıs in O	ne Mete	r	
Diameter mm	Ø4	ØG	Ø8	Ø10	Ø12	Ø14	Ø16	Ø18	Ø20	Ø25	Ø30
m/gr abt	15	24	40	60	80	110	150	190	230	350	500

Ceramic Fiber Woven Ribbons

Imaledil from alumina-silica materials are built with high quality ceramic fibers. Used for high temperature applications. Ceramic strips can be reinforced with glass fiber. 2 mm to 10 mm can be produced up to 100 meters in width and thickness of 25-100 mm. Continuous operating temperature is 982 ° C. . Protecting and insulating cover and curtains . Cable and pipe wrapping material Expansion connections . Seals and sealing material in high temperature nmonto Ovon Chir et Sveteme

environments . Uven,	, L'him	iney,	Boiler	s, Exh	iaust 2	ys
A VERAGE SIZE OF WEIGHT	ON TI	HE MET	ERS OF	ST A NI	DA RDS	
Section mm ²	20x2	30x2	40x2	50x2	100x2	
m/gr abt	25	35	45	55	110	

Ceramic Fiber Bord (Plate)

Definition : Ceramic fiber board is formed in a material able to resist a vacuum higher gas velocities than ceramic fiber blanket. This material furnaces, boilers input and output, are widely used in industrial flue liner. Having low thermal conductivity and low thermal capacity provides rapid response on the use and rapid maintenance to be performed. Applications :

. In industrial furnaces . Combustion chambers, boilers and process heaters

Brick and monolithic refractory material to the supporting material The molten aluminum and the transport of molten nonferrous metals The expansion joints

Features :

Low thermal conductivity . Low thermal capacity . Lightness, showing the need for a second isolation . Excellent thermal shock resistance . The hot cas erosion resistance . To be most resistant to chemical corrosion . Cutting-use and ease of installation, low noise transmission . The molten aluminum and molten non-ferrous metal is resistant to contact . It does not contain asbestos

		TECHNICAL SPEC	IFICATIONS				
	Main characterist	ics	Test Method	Unit	Value		
		AI203			70%		
	Allays	SiO2	-	-	20%		
		Other Metal Oxides			10%		
Inte	ensity			lbs/in3 (gr./cm3)	0.075 (2.1)		
Ope	erating Temperature		-	°F (°C)	2,500 (1,370)		
Str	ructural Operating Temperature			°F (°C)	1,430 (775)		
Co	mpressive Strength		ASTM D-695	psi (MPa)	13,050 (90)		
Ber	nding Strength		ASTM D-79D	psi (MPa)	8,400 (58)		
Pa	rasity of			%	35		
Va	lume Resistance		ASTMD-257	Ohm x cm	52 x 1010		
Die	lectric Strength (Wide Surface D	irection)	ASTM D-149	V/mil (kV/mm)	91 (3.6)		
Die	lectric Constant		ASTM D-150	-	5,5		
Th	ermal Conductivity (648 °C)		ASTM C-177	BTU/in/hr/ft2 ºF	4,69		

Ceramic Fiber Paper

Definition : Obtained by passing a multi-process are made of special ceramic fibers. Easy to cut. As the sealing material in a hot environment is very convenient. Up to 1260 ° C ceramic fiber paper applications are possible.

Steel and metallurgy, petrochemical, automotive, aviation, etc. . High temperature and chemical resistance, thermal insulation in the desired environment, gaskets, separators, lining . Fire, sparks, molten metal protection . High temperature electrical insulation . High temperature filtration . Excellent elasticity . High temperature, chemical corrosion resistance . Thermal shock stability, low thermal conductivity . Low density, high strength . The protection shape . Excellent sound insulation . Filtering feature . Heat resistance up to 1260 ° C.

TEL	CHNICAL SPECIFICATIONS
Intensity	0.160185 gr/cm3
Phaneiral annualities	Al2O3: 47%; TotalAl2O3 or
Gnemical composition	SiD2: > 97%; Fe2D3: < 1.0%
Tensile Strength	1.72 bar
Opposition Tomponature	Continuous: 982 °C,
uperating i emperature	Maximum:1260 °C









OTHER PRODUCTS

alore

Yellow Oil Seal

Paraffin and synthetic additives impregnated with special oils and cotton yarn is manufactured as 2-3 times the cross-sectional square braided.

- . Ship shafts
- . Cold water engines
- . Pipe connections



VALVE VALUES SHAFT PUMP PH 2-14 AVERAGE SIZE OF WEIGHT ON THE METERS OF STANDARDS 60 P (bar) 8 20 Section mm² 4x4 6x6 8x8 10x10 12x12 14x14 16x16 18x18 20x20 22x22 25x25 30x30 12 2 Vg (m/s) T (°C) 1,5 80 Gr. / m 40 60 70 120 170 280 350 380 530 630 850 1550

Dily Hemp Seal

The industrial plant which is produced by knitting of strings Obtained from hemp. Coefficient of friction is a natural material and the durability is higher. . Pumps . In the boat

PISTON

. Salt water environments

Boiler Cover Gasket

Definition : These seals, graphite and rubber materials impregnated with glass fibers or ceramic fabric is manufactured by shaping hot the desired dimensions. Providing easily adaptable to uneven surfaces is an important convenience.



Wire Reinforced Cover Gasket: If requested, the wire
seal made of reinforced fabric cover options can be
met.

Replacing the boiler door gasket once a year is recommended

Crankshaft Seal

Crank shaft seal is one of the most important seal in a motor vehicle. Crankshaft seal, keeps the place that should be used to prevent contamination of the engine oil and oil of contaminants such as dust, dirt outside. Felt the harsh conditions, the pressure is designed to be resistant to heat and oil. Felt cold weather pull-up, should the expansion in hot weather. It is therefore of great importance is the quality of the crankshaft seals..





White **Dil Seal**

Paraffin and synthetic additives impregnated with special oils and cotton yarn is manufactured as 2-3 times the

cross-sectional square braided.

- . Ship shafts . Cold water engines
- . Pipe connections

VALUES	SHAFT	PISTON PUMP	VALV
FH		4-14	
P (bar)	8	20	60
Vg (m/s)	12	1,5	2
T (OC)		70	

Section mm² 4x4 6x6 8x8 10x10 12x12 14x14 16x16 18x18 20x20 22x22 25x25 30x30 Gr. / m 30 50 90 100 250 270 280 390 480 830 1500		AVE	RAG	E SIZ	E OF W	EIGHT	ON TI	HE MET	ERS D	F STAN	DARDS		
Gr./m 30 50 90 110 250 260 270 280 390 480 830 1500	Section mm ²	4x4	6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	25x25	30x30
	Gr. / m	30	50	90	110	250	260	270	280	390	480	830	1500

Warehouse (Ship) Cover Grommet

Definition : EPM interior of the wick to the desired size and Nitrile O-ring onto the glass fiber yarns woven with special oil is fortified with PTFE thread topcoat. Chemical gases, petroleum products and in providing fluid sealing, see the cover of the seal function because it has a flexible structure.

- . Tankers
- . Refineries
- . Filling facilities

. The hatch covers

Ceramic and Glass Fiber Seal Custom Manufacturing

Definition : The outer surface is woven lattice. Providing protection from external factors have gained strength and increased friction coefficient.



CALORE HEATING
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