



armadillo



Holding Refractories Globally

ABOUT US

ARMADILLO TRADING FZE is supplier of all REFRACTORY PRODUCT NEEDS, located in the Free zone of Hamriya, United Arab Emirates.

ARMADILLO TRADING FZE envisions to bring world class service with its industry expertise, customer satisfaction & delivery standards. Product ranges include Refractory Metal Products, Ceramic Blankets, Boards & Paper, Castables & Insulation Fire Bricks, Thermal Insulation & Passive Fire Products & Accessories.

Our comprehensive product range and infrastructure combined with our technical competencies, machineries, and continuous improvement initiatives, enhances our status as the pre-eminent manufacturer and preferred supplier of our products to all industrial sectors like Petrochemical, Oil & Gas, Fertilizers, Steel, Cement, Sponge Iron etc...

ARMADILLO TRADING FZE always holds a passion and commitment for quality products. Our core competence is professional service, superior and consistent quality, competitive price, and on-time delivery.



MISSION

Providing quality products through innovation and commitment to customer standards.



VISION

Dedicated to being the best for customers and vendors in Refractory Anchoring solutions.



QUALITY ASSURANCE

Delivering quality through continuous training, efficient management, and best practices.

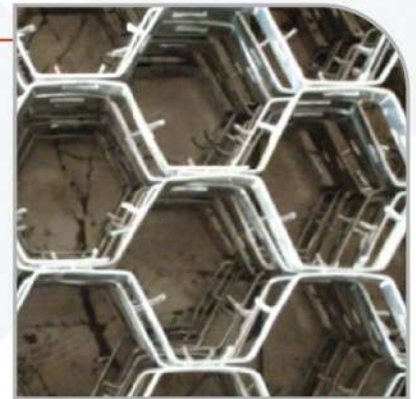
REFRACTORY ANCHORS

Our refractory anchors are engineered to withstand the high-temperature and mechanical stress and are an apt specialized product to hold and reinforce your entire refractory lining. We specialize the anchors in various grades to cater low temperature to the highest in refractory linings to best suit your needs.



HEXMESH

Our Hexmetal (Hexmesh) is a unique honeycombed steel designed to provide excellent retention and reinforcement of thin wall refractories. Though it is predominantly used in FCCU applications, it is one of the best product for selected refractory applications. We supply all Hexmesh accessories such as End Tab, Variable Tab, Radius Tab etc in various grades.



PIPES & FLANGES

We supply quality pipes in both seamless and ERW and with the highest quality and best suited grades. Our pipes and flanges are ready to suit your applications from low-temperature to high temperature based on requirements.



TURND COMPONENTS & FASTENERS

Our Turned and threaded components are manufactured with highest precision to best suit customer needs. We supply a high range of fasteners both on industry standards and specially tailor made designs.



RODS, SHEETS & PLATES

We specialize in round bars and hexagonal bars Stainless steel and other exotic grades which are with excellent corrosive resistance, oxidation resistance, strong impact resistance and to withstand high temperatures. Our rods are usually supplied in both straight and coil form to best suit customers requirement. Our supplies ranging from 0.5mm to 100mm diameter. which passes all technical parameters and always supported with technical documents.



COILS & FOILS

Our Low & high temperature Coils/ Foils are predominantly used in the refractory, thermal, fires protection and other related applications. We supply Sheets in standard form as well as coils and foils. Our coils and foils are used in a variety of applications & produced by hot rolled & cold rolled method and with thickness ranging from 0.05mm to 10mm.



CNC LASER PROCESSING

We supply precision products using CNC laser cutting machines with state of the art 3 kilo-watts laser beam to produce high quality laser cut parts in mild steel, and stainless steel thickness ranging 0.3mm thk to 12mm thk plates , on sheets and plates. that uses a laser to slice materials. Laser cutting works by directing the output of a high-power laser most commonly through optics.



SUPPORT PLATES & FABRICATIONS

Shapes & components drawn from flat metallic sheets/ plates with varies thicknes. Process of turning raw metals to pre-made shapes for assembly use. The process includes cutting, burning, welding, machining, forming, and assembly to create the final product.



THERMAL INSULATION/ FIRE PROTECTION/ ACOUSTIC JACKETS

Our IGNOSHIELD custom made thermal Insulation Flexible Jacketing are equipped to handle high temperature up to 1100°C in various applications. Our jackets are made out of e-fibre Glass cloths with Silicon Coated on them with a combination of Ceramic Blankets, SS foils, SS mesh to handle high pressure and high temperature. These are Flexible, Longer Duration, Weatherproof, Energy Saving, cost effective & easy to apply.



THERMAL INSULATION ACCESSORIES

Our vast list of thermal insulation accessories are specially tailored for customer and project needs. These products are usually made from Aluminum, GI, Mild Steel, Stainless steel up to Inconel grades and are produced with more precision to suit industry standards in various applications. Products includes, Insulation Pins, washers, Tie Wires, Clamps, Pop Rivets, Self Tapping Screws, and other specially designed products.



RIGID PFP STRUCTURES

Our IGNOSHIELD metal-based products that provides protection against high-temperatures and fire exposures. These Rigid system is custom manufactured in sections designed to fit around the equipment requiring protection along with inspection hatch features. These are predominantly made in SS 310, SS 304, & SS 316 grades based on project requirements. Manufactured with CNC laser technology and precision machinery to meet needs.



E-FIBRE GLASS CLOTH/ SILICON COATED CLOTH/ PTFE THREADS

We are a major supplier of the fibre fabrics with a wide range of cloths used for thermal applications. Our products are a perfect choice for industry needs and ranges as below. Silicon Coated Fibre Fabric, Polyurethane coated Fibreglass Fabric, Aluminized Fibreglass Fabric, PTFE Coated, Neoprene Coated, Graphite Coated, Acrylic Coated, Vermiculite Coated, & Silica Coated fabrics.



CERAMIC FIBER BLANKETS

Ceramic Fiber Blankets usually supplied in rolled form and is produced to withstand high-performance and high-temperature in various application in both thermal Insulation application and Fire protection applications. Our product holds a wide range from 64 to 128 density and thickness ranging from 25 to 50mm. Also, special low thickness blankets can be supplied based on customer requirements.



CERAMIC BOARDS

Ceramic Fiber Boards are manufactured with high quality alumina fibrous and alumina powder and formed with accurate firing and advanced process to hold temperature up to 1700°C. Our Boards are available in various thickness range and sheet dimensions based on the application and project requirement.



CERAMIC FIBER PAPER

Ceramic Fiber paper consists primarily of high purity alumino-silicate fiber and is manufactured through a fiber washing process. They are low thickness, Low dense & light weight insulation products available in coil and sheet form.



REFRACTORY APPLICATION PRODUCTS

We specialize in refractory product application and have a wide range of refractory products. Understanding customer refractory needs, we have enhanced ourselves with all refractory and thermal insulation products all in ONE roof. Being A ONE STOP SOLUTION for all your refractory and thermal insulation needs, it helps customers effort on both commercial and technical difficulties.



ANCHORS FOR CASTABLES

V ANCHORS (SIMPLE & CORROGATED)

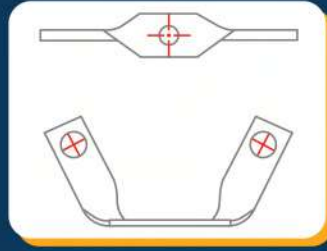


Y ANCHORS (SIMPLE & CORROGATED)



ANCHORS FOR CERAMIC FIBERS

MODULE YOKE



FIBRE LINING ANCHOR



CERAMIC CUPLOCK



U PIN



INSULTWIST STUD



WASHERS-LOCKING SPEEDFX



ANCHORS FOR REFRACTORY BRICKS



SUPPORT PLATES



ANCHOR ACCESSORIES

ARMADILLO in addition to refractory metal products also supplies anchor accessories for enable best fit and application. Every anchor is best fit in the refractory castable/ lining using a cap usually made of PVC/ plastic. All refractory Anchors should be capped with Self sacrificing plastic meltable caps to facilitate thermal expansion of the anchors.

THE SALIENT FEATURES OF THIS CAP FOR A REFRACTORY ANCHOR ARE AS FOLLOWS

High flexibility and provides a complete seal which is crack free

Withstands high temperatures and has chemical resistance

Acts as a protection from dust or other impurities

Easy to install providing airtight fit

Provides natural insulation & durability

Customizable in length and size

CAPS



FERRULES



CUPLOCK



BITUMINOUS PAINT



INSULATION FIRE BRICK



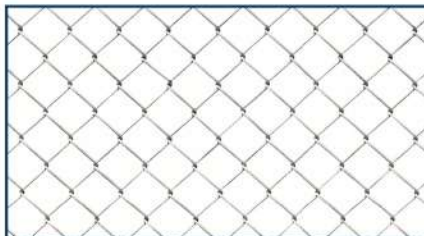
MORTAR



CASTABLES



CHAIN LINK



RIGIDIZER



WIRE CUT FIBRE



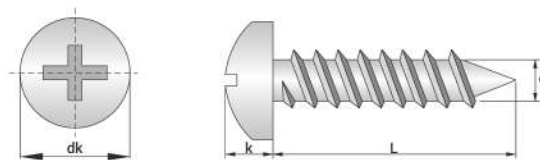
ALUMINIUM SCRIM TAPE



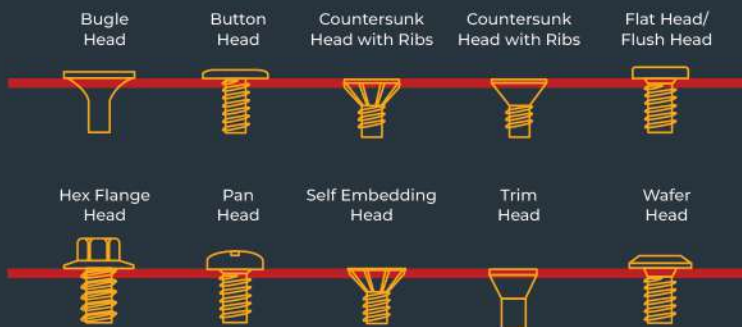
INSULATION ACCESSORIES

SELF TAPPING SCREW

Self tapping screws are typically used to secure Wood, Plastic, Metal and Brick together. There are two types of self tapping screws, thread forming and thread cutting.



SELF TAPPING SCREW HEAD TYPES



MODEL	DK	K	L	D	Unit:mm
M2*4	3.5	1.28	4	2	
M2*5	3.5	1.28	5	2	
M2*6	3.5	1.28	6	2	
M2*8	3.5	1.28	8	2	
M2*10	3.5	1.28	10	2	
M2*12	3.5	1.28	12	2	
M2.2*5	4.1	1.6	5	2.2	
M2.2*10	4.1	1.6	10	2.2	
M2.6*6	4.3	1.65	6	2.6	
M2.6*10	4.3	1.65	10	2.6	
M3*8	5.1	1.7	8	3	
M3*12	5.1	1.7	12	3	

POP RIVET

A rivet is a mechanical fastener composed of a head on one end and a cylindrical stem on another (called the tail) which has the appearance of a metal pin. Pop Rivet is used to make high strength joints in a range of materials, including Metals, Plastic, Wood and Leather.

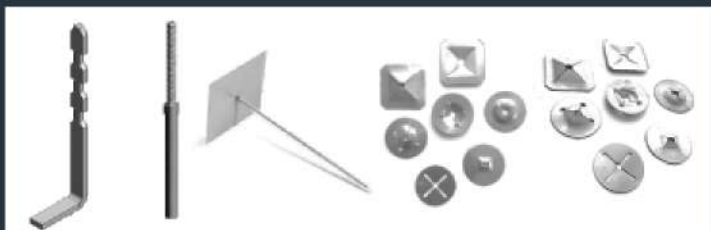


TYPES OF RIVET

- Solid Rivets
 - Split Rivets
 - Flush Rivets
 - Blind Rivets
 - Friction Rivets
 - Structural Steel Rivets
- Blind Rivets also commonly referred to as POP Rivets

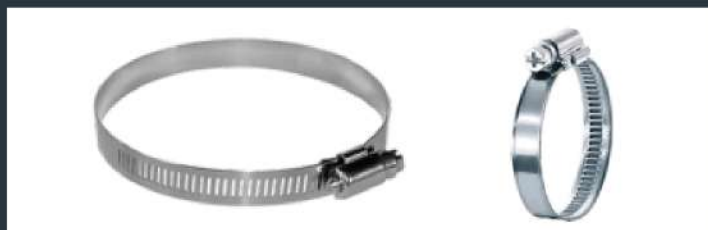
INSULATION PINS

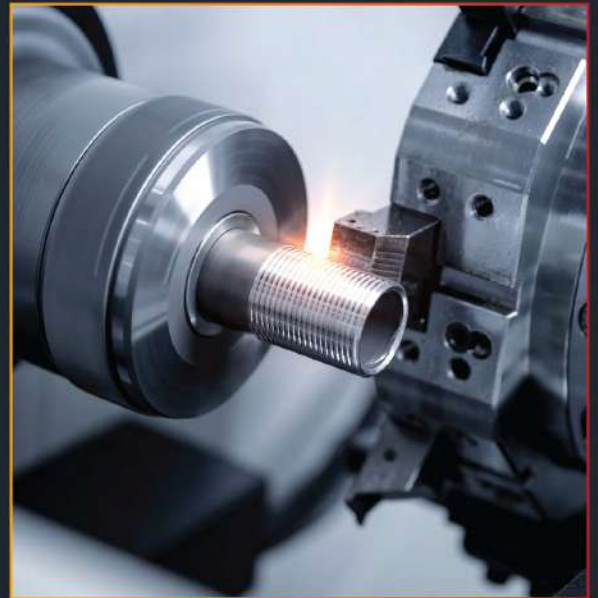
Install pins are used to mechanically fix and install insulation material that can be pierced by metal spindles. Install pins, also referred to as 'Hanger pins' or 'Insulation pins' are either stud weldable or designed to be bonded with adhesive for non welded systems.

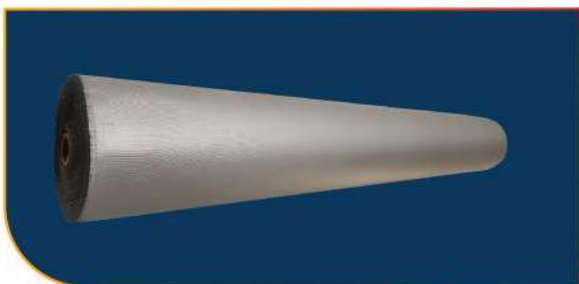


WORM GEAR/ SCREW/ BAND CLAMPS

Worm Drive Hose Clamp known as Screw clamp is a metalband clamp. It has a helical threaded screw or worm gear, housed in the clamp. Worm gear clamps provide a hi-torque clamp that prevents hose connections from slacking and they also prevent leakage.

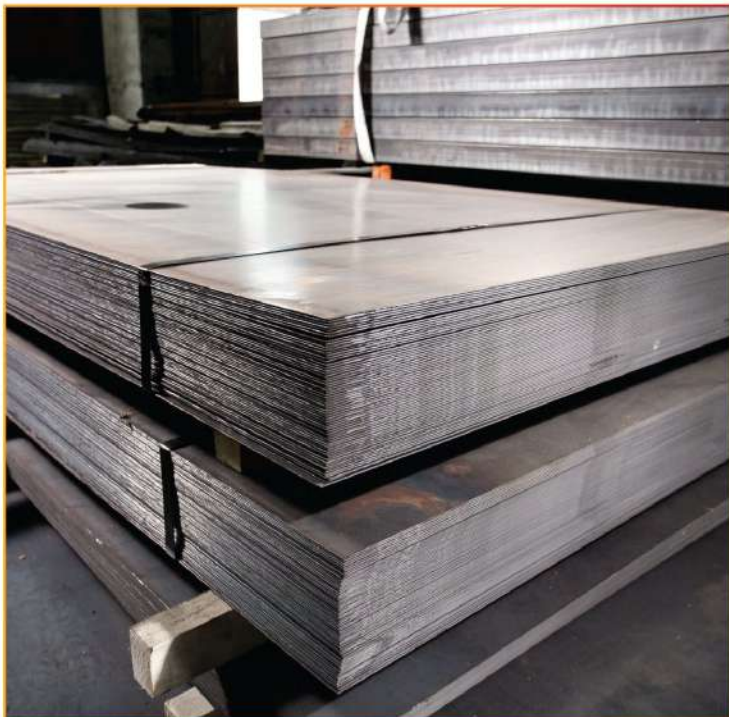






ALLOY GRADES & PROPERTIES

GRADE	TYPE OF SS	HEAT RESISTANCE	DENSITY	CORROSIVE RESISTANCE	NICKEL CONTENT	CHROMIUM CONTENT	TENSILE STRENGTH (Mpa)	ELONGATION %
CS	Ferritic/Pearlitic	540 C	7870	Low	0.3	10.5	415	10
409	Ferritic	675-815 C	7700	Moderate	0.5	10.5 - 11.7	380	20
410/410S	Martensitic	400-580 C	7700	Moderate	-	11.5 - 13.5	480	16
304	Austenitic	425-860 C	7900	Very Good	8.0 - 10.5	17.5 - 19.5	515	40
304L	Austenitic	500-800 C	7900	Very Good	8.0 - 12.0	17.5 - 19.5	485	40
304H	Austenitic	425-860 C	7900	Very Good	8.0 - 10.5	18.0 - 20.0	515	40
321	Austenitic	425-900 C	7900	Very Good	9.0-12.0	17.0-19.0	515	40
316	Austenitic	425-860 C	8000	Excellent	10.0-14.0	16.0-18.0	515	40
314	Austenitic	649-816 C	7900	Very Good	19.0 - 22.0	24.0 - 26.0	15	40
310	Austenitic	650-900 C	7750	Very Good	19.0 - 22.0	24.0 - 26.0	515	40
310S	Austenitic	650-900 C	7750	Very Good	19.0 - 22.0	24.0 - 26.0	515	40
600	Austenitic	900-1100 C	8470	Very Good	>72.0	14.0 - 17.0	760	20
601	Austenitic	1300-1400 C	8100	Excellent	58.0 - 63.0	21.0 - 25.0	600	20
800	Austenitic	1100-1300 C	8100	Excellent	30.0 - 35.0	19.0 - 23.0	600	20
800/HT	Austenitic	1100-1300 C	8100	Excellent	30.0 - 35.0	19.0 - 23.0	600	20



OUR EXTENDED SERVICES



SOLUTION ANNEALING

Solution annealing is a high temperature heat treat process where the alloying elements of the material are brought into a solid solution. The solid solution condition is maintained by quenching the material in water or polymer. We have our own annealing furnace with a capacity of up to 1 Metric Ton to a temperature of 1200 degree celcius.



PICKLING

Pickling is a metal surface treatment used to remove impurities, such as stains, inorganic contaminants, rust or scale from ferrous metals, copper, precious metals and aluminum alloys. A solution called pickle liquor, which usually contains acid, is used to remove the surface impurities. It is commonly used to descale or clean steel in various steelmaking processes.



PASSIVATION

In Passivation, the surface of the stainless steel is treated with an oxidizing acid, to dissolve carbon steel, sulfide inclusions and remove iron and other surface contaminants from the stainless. The acid further works to promote the formation of the chromium-rich passive film, which imparts the corrosion resistance quality.



POLISHING

Metal polishing can be performed with several varieties of abrasive. The best abrasive for it largely depends on the condition of the material that will be polished. Polishing and buffing can also contribute to workplace safety. Helps prevent corrosion & brings out the shine in metallic surfaces. Our polishing types for anchors-Barrel Tumbling & Vibratory finishing.



TESTING

Testing covered by us:

- Positive Material Identification Testing (PMI)
- Chemical Analysis
- Mechanical Testing
- Corrosion Testing
- Metallurgical Testing
- Nondestructive Testing
- Intergranular Corrosion (IGC)



PACKING AS PER INTERNATIONAL STANDARDS

Packing done as per international Standards to ensure Airway/ container guidelines -- 7-Ply carton Boxes sorted in wooden pallets

- Country of origin / Port of entry
- Labels for hazardous materials
- Shipper's mark
- Weight marking
- Cautionary markings



GUN WELDING SERVICES

A welding gun is a portable device used to achieve semi automatic or automatic welds on pieces of metal. Used for several types of processes, including spot welding, arc welding and electron-beam welding.

FREIGHT & FORWARDING SERVICES



EXPORT TYPES

- Direct Export
- Indirect Export
- Merchant Export
- Deemed Export



EXPORT DOCUMENTATIONS

- Product's Quality Certificate
- Invoice & Packaging List (Commercial & Tax Invoice)
- Fumigation Certificate
- COO Certificate
- AWB/BL/Courier Booking Details / Rail-Road Booking Details
- Any other Technical Certificate as per Custom's Requirements



EXPORT FREIGHT MODE

- Airway
- Sea Shipment-Container
- Rail/ Road
- Courier



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