

**REF CONE**  
HEAT INSULATION



*We supply your needs*

# INTRODUCTION

Refcone is specialized in providing refractory solution for all type of industries. Today, Refcone are a leading independent company offering services in the capacity of industrial solution provider, refractory installer and refractory material supplier for all type of furnaces. We provide our customers with customized solutions for all type of refractory, insulation and mechanical parts and equipment's ranging from consultancy, design, engineering and high quality installation.



## VISION

To exceed our customers increasing expectation.

## MISSION

To be the preferred choice for all refractory, thermal insulation and mechanical requirement covering all industries and assuring total quality to our customers.

## VALUES

**At Refcone we believe in the following:**

- ▶ Integrity
- ▶ Strive for excellence
- ▶ Diversity & fairness
- ▶ Innovation
- ▶ Continue improvement

# PRODUCTS

## Ceramic Fiber Insulation Product:

Refractory ceramic fiber (RCF) and AES wools (alkaline earth silicates) range are revolutionary product in the refractories industries. Ceramic fiber insulation has many desirable properties for numerous heat intensive applications. Ceramic fiber insulation has very low thermal conductivity and highly resistance to thermal shock. It is used in many hot face application where the lining is not subjected to abrasion or chemical attack. Due to its low thermal conductivity and high temperature resistance, it is often used as back up lining behind monolithic castable refractory in many application.



- ▶ Ceramic fiber blankets product is one of the most common forms of industrial. It come in a wide range of size, thicknesses and densities to meet specific insulation requirement. It is available in different temperature grade from 1200 all the way up to 1600°C.
- ▶ Ceramic fiber board product is a rigid type of insulation. Is available in a variety of thickness of 25 ,12 ,10 ,5 and 50mm, depending on grade can withstand temperature up to 1800°C.
- ▶ Ceramic fiber paper and felt product is available in a variety of thickness that can match different application. Insulation paper is easily to cut and is useful in many industrial application, typically for high temperature gasketing.
- ▶ Moldable/castable and mastic insulating product of ceramic fiber for special application, troughs, spouts, sealing etc.
- ▶ A wide range of ceramic fiber folded modules from 1260°C up to 1425°C. Folded moduled come in a variety of thicknesses and sizes. Also, modules are easy to install and saving on labor.

# PRODUCTS

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## Ceramic Fiber Shapes:

Refcone source out and supply full range of refractory Ceramic fiber (RCF) and AES wools (alkaline earth silicates) insulation fiber, which can be vacuum formed into a variety of shape for specific application that range from riser sleeve, combustion chambers, and gas fiber board. Refcone can work with you to design and select the right shape and material to meet your demanding application. Refcone works with global suppliers of vacuum formed insulation ceramic fiber shapes.

## Ceramic Textiles:

Refcone supply ceramic textiles from several choices of world renowned textile manufactures that includes ropes, braids, cloth, tapes and sleeving. Ceramic textiles are made from Alumina-Silica ceramic fiber, free of asbestos. These fiber material can be used in different industrial applications under temperature exceeding 1260 degrees C, and have excellent chemical stability and strong resistance to thermal shock and corrosion attack. New development in ceramic textiles manufacturing utilizes reinforcement insert material of either Inconel wire or continues fiberglass filament to increase handling strength during installation and enhance fiber durability to rated temperature of ° 1093C for Inconel wire and ° 649C for fiberglass filament.



## Crucibles:

- Foundry crucible for non-ferrous industry- complete size range of 1200-0.5 Kg.
- Special shape crucibles- A type, B type and many other.
- Crucible made of silicon carbide for better thermal shock resistance.
- Small crucible of high (and pure) Alumina and Zirconia for special application.



## Insulation & Dense Bricks:

- Regular fireclay (chamotte) Bricks-straight, wedge, arch and split for various temperature.
- High Alumina Bricks (%95-60) for extreme temperature and condition.
- Burnt Magnesia bricks, Burnt Magnesia-Chromite bricks, Burnt chromite-Magnesia Bricks, Burnt Magnesia-Spinel, Chemically Bonded Bricks, Magnesia-carbon Bricks etc...
- Furnace cover radial segment.
- Burner Blocks.
- Mortar for Bricks installation.
- Acid resistance red shale bricks.



# PRODUCTS

## Monolithic Castable Refractory:

Selecting the right monolithic castable refractory from the thousands of formulas available from around the world is a daunting task. Each one is made from different raw material and by different manufacturing processes. Although the chemical composition and the data sheet of two product may look similar, or exactly the same, no two monolithic castable refractory product perform exactly the same in service.

Refcone has years of experience in many different application and the leverage of worldwide supplier network allowing us to recommend the right product at competitive price.

Refcone focuses on the lowest overall cost in service. Experience combined with sourcing ability makes Refcone uniquely suited to select, source, deliver and install monolithic castable refractory that give the longest life, economical installation method and competitively priced material.



## Insulation Monolithic Refractory:

Insulating monolithic refractory is a lightweight product used for its insulating ability rather than structural composition. Generally, insulation castable is used in application where low thermal conductivity, as well as, resistance to thermal shock are the driving forces behind material selection in a given application.

Refcone provide insulation castable from many different manufactures around the world. Decades of experience combined with expert sourcing and logistic bring you the lowest cost solution every time.



## Dense Monolithic Refractory:

Dense refractory castable is generally selected for application where strength, abrasion resistance and chemical resistance properties are required. Dense monolithic castable comes in a wide variety of formulation for specific application.

Refcone can select the right formulation from the right manufacturer at the most economical overall cost, including installation.



## Special Monolithic Castable Refractory:

Special monolithic refractory is formulated for very specific application and installation techniques which include gunning and ramming. Specialties are also available in low cement formulation and special duty grades.



## Refractory Anchors System:

Refcone source, supply and install a wide range of ceramic anchor, wire anchor, fiber clips and metal fiber. High quality anchoring system that will be suitable for many types of monolithic, ceramic fiber and brick refractory lining. This careful selection ensures that the correct grade of material, dimension, spacing pattern and welding method are chosen for an anchorage system, which is essential for retaining the refractory material and enhancing the lining performance.

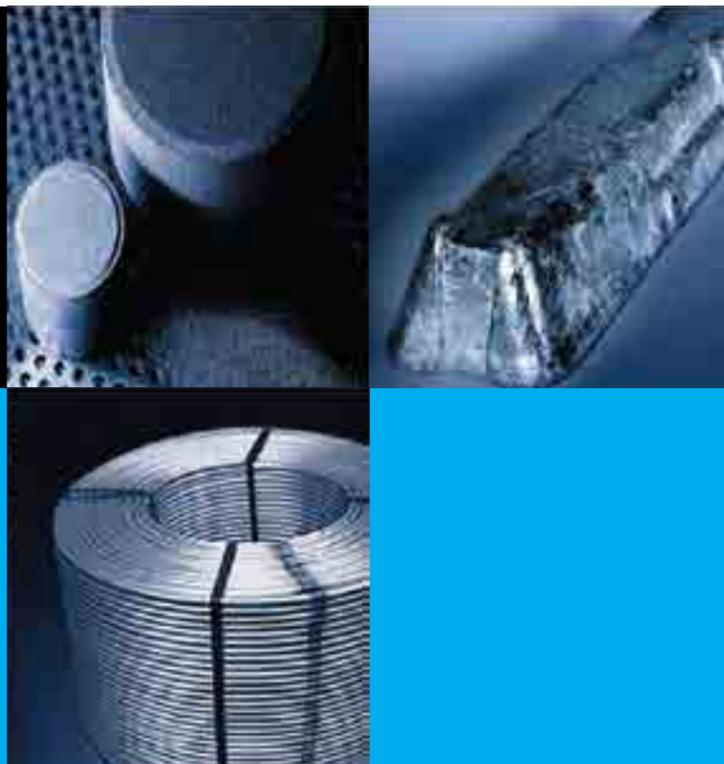


# PRODUCTS

# SERVICES

## Alloying Additive, Tablets & Raw material:

Refcone Supply a wide range of Alloying Additive in form of pure metal like magnesium, silicon, manganese, copper, titanium etc. Hardeners Tablets like Fe, Mn, Cu, Cr, Ti Tablets with or without Fluxes.



## Heat Resistance Application:

After Melting, metal is rich in impurities and oxides, which modify alloy structure and harm alloy quality and composition. Filtering system are best media to eliminate property inclusion and oxide trapped in the molten metal. Dimension and properties can be tailor made for customer needs.



## Aluminum Primary & Secondary Industries:

Refcone continues to service the aluminum industries, bringing years of experience in regard to installation, product selection, sourcing and on-going maintenance to ensure a low cost refractory solution to many of the heat intensive issues. These industries strive to achieve high Energy efficiency by providing effective insulation and thinner dense linings. Both help to reduce cost per tonne.

### *Refcone has products for specific aluminum industry application:*

- Carbon bake furnace.
- Electrolytic reduction cell.
- Holding/Melting furnace.
- The casting process.
- Homogenizing furnaces.

Just about any industry that uses a furnace or has a high heat application, needs industrial refractories. Refcone has solution for all your heat intensive problems. With many years of experience in servicing industrial refractories market, Refcone can ensure maximum life and performance from your refractory purchase.



# SERVICES

## Other Industrial Refractories:

*Refcone undertakes installation of a wide range of industrial refractories for industrial markets like:*

- ➔ Incinerators.
- ➔ Boilers.
- ➔ Heat treating industry.
- ➔ Petro-chemical and chemical industries.
- ➔ Iron and steel industries.
- ➔ Ferrous and non-Ferrous metal industries.
- ➔ Power generation.
- ➔ Cement and lime.
- ➔ Pulp and paper.



*Refcone Offer The Following Services to its Clients.*

## Value Addition Through Project Management.

Refcone is experienced in project management and evolved from many years of refractory installation management.

The service team is supported with refractory experienced estimators, on site knowledgeable supervisors, design engineers, material manufacturing quality control and installation quality control plan. Whether it is refurbishment or furnaces new relined, Refcone can manage all project activity related from start to finish.



## Demolishing Of Refractory Lined System:

The effective demolishing of hot and cold materials is ensured by Refcone use of high- power excavator and hydraulic breaker, oxygen lancing and materials handling equipment for the removal of waste material and site rehabilitation. Mechanized method for demolishing furnace lining helps reduce downtime of production units- ensure the cost-effective completion of project.



## Removal & Reinstalling Of Refractory Anchors System:

Refcone undertakes supply, Removal, Reinstalling and design a wide variety of refractory and metal anchorage systems to meet all application requirement. Anchoring system welding with adequate supervision in accordance with the clients specification or requirement.



# SERVICES

## Thermal Dry Out Of Refractory Lined Vessel/Furnace:

Dry out of refractory lining to industrial process unit is carried out by Refcone using the advance technology of high velocity gas heating equipment. These equipment are specifically designed to control the temperature and reduce the flame impingement that generate by furnace burner.



## Precast Shape Services:

Refcone has good experience in custom refractory precast shape, and most importantly, hands on construction experience casting and installing refractories in many furnace application. For cast house requirement special precast shape that include ceramic foam filters, filter bowls, transfer and casting launders. Refcone can help in selection of the right materials for the right application to:

- ➔ Increase the refractory life.
- ➔ Decrease downtime.
- ➔ Decrease installation labor cost.
- ➔ Improve thermal conductivity.



# OTHER PRODUCTS

## Mechanical & Electrical General Products:

Refcone can supply full range of bearings starting from small ball bearings to large cylindrical roller bearings with the close cooperation of world leading brand manufacturers such as SKF, FAG, TIMKEN, NSK, NTN etc.

Types of bearings supply:

- ➔ Deep Groove Ball Bearing
- ➔ Angular Contact bearing
- ➔ Tapered Roller
- ➔ Cylindrical Roller
- ➔ Thrust Roller
- ➔ Spherical Roller
- ➔ Linear Bearings With Rails
- ➔ Slewing Ring Bearing
- ➔ Bushes



## Belt Conveyor System & Drives:

Products are available in a wide range of types and sizes with power rating to suit a wide band of activity. The size can range from 400mm to 2200mm. These types of belts systems can be used to transport scrap material, moving boxes along inside a factory or bulk material handling like abrasive material such as cement, grain, ore, coal, lumps material etc.



## Power Transmission Products:

Refcone can supply a wide range of transmission products in various sizes and standards from our reputed suppliers in Europe and Far East.

- ➔ Sprockets, V-Belts, pulleys.
- ➔ Link chain, cotter pin chain, conveyor chains.
- ➔ Couplings, rack and pinions etc.
- ➔ Different type of gears-spur, helical & bevel.



# OTHER PRODUCTS

## Motors & Gear Drives:

Refcone offer a wide range of product to meet the needs of numerous industrial applications such as:

- ▶ Geared motor
- ▶ Helical & helical bevel gear reduction
- ▶ AC induction motor.
- ▶ DC motor
- ▶ AC & DC Drives.
- ▶ Worm gear reducer etc.



## Industrial Valves:

Refcone offer a wide range of industrial valves & valve accessories like flanges, Elbow, Tee and reducer for water treatment, water supply, sewage and pumping in different valves types and available in material such as cast iron, ductile iron, steel, stainless steel, brass, bronze with different lining & pressure rating. All supply valve meet the international standard ASTM, BS, DIN, UNI & ISO. Actuators drive Electric, pneumatic, hydraulic & manual such as:

- ▶ Butterfly valves.
- ▶ Diaphragm valves.
- ▶ Gate valves, Rubber Vulcanized Wedge.
- ▶ Check valves.
- ▶ Air release valves & Dismantling Joints.
- ▶ Knife gate Valves.



## Hydraulic & Pneumatic Product:

Refcone is the leading supplier of hydraulic & pneumatic controls, Equipment & Systems. We can provide comprehensive line of pneumatic & Hydraulic product with the close cooperation with world leading brand manufacturers. All supplied valves meet the international standard ASTM, BS, DIN, UNI & ISO.

- ▶ Hydraulic pumps.
- ▶ Hydraulic & Pneumatic Valves.
- ▶ Hydraulic & Pneumatic cylinders.
- ▶ Pressure Gauges.
- ▶ Hydraulic & Pneumatic Fittings.
- ▶ Hydraulic & Pneumatic Hoses.
- ▶ Air Valves.
- ▶ Solenoid Valves and Other Products.



# OTHER PRODUCTS

## Air Filtration Products

Refcone provides service and product to maintain customer bag house, dust collection system, pollution control & filtration. We supply filter media in different shapes, cylindrical, cassette type, multi pocket type etc from a variety of worldwide manufactures.

We supply and design the filter based on customer specification and application in wide range of industries including.

- ▶ Cement plant
- ▶ Aluminum
- ▶ Steel casting & foundries
- ▶ Chemical industries.
- ▶ Iron and steel plant
- ▶ Ferro alloy
- ▶ Petrochemical



## Industrial Cutting Tools & Accessories.

Refcone can offer a wide selection of industrial cutting tools & accessories. We purchase globally from world respected manufacturers, to ensure we have a comprehensive range of quality, precise and dependable machine tools that our customers have come to expect.

- ▶ Circular Saw Blade
- ▶ Grinding Wheel
- ▶ Bandsaw Blade
- ▶ Machine cutting tools



## Pumping Equipment:

Refcone can offer a wide selection of Pumping Equipment from several leading International Pump Manufacturers to suit almost any Fluid Handling application.

We offer quality pumps, ones that are reliable and represent the best value for money. We understand the cost of 'downtime' and the consequences of lost production. But we also acknowledge that at times when an economical solution is required, which is why we supply pumps from such a wide range of reputable pump manufacturers - so that we can select a pump that is suitable for YOUR pumping application.





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