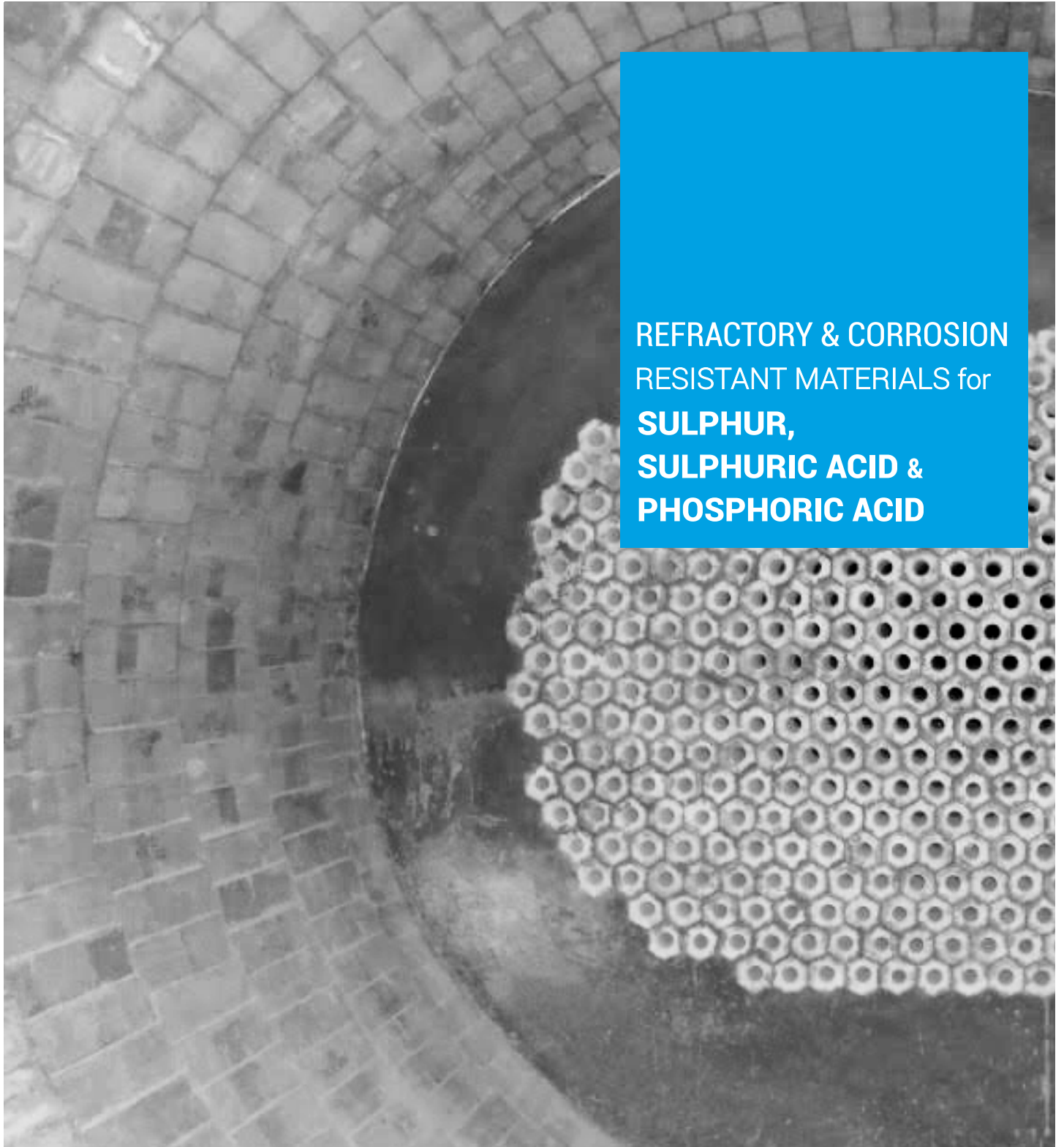




Total Refractory Expertise



REFRACTORY & CORROSION
RESISTANT MATERIALS for
SULPHUR,
SULPHURIC ACID &
PHOSPHORIC ACID

INTRODUCTION

Pacific Refractories is a premium quality refractory manufacturer. It was established in 1994. Today, PRL has two manufacturing plants with laboratory facilities adopting ASTM and ISO standards for inspection and testing of products. The plants are ISO 9001:2008 certified.

With a view to diversify the product range, the company went into a technical collaboration with Premier Refractories, USA for manufacturing high grade alumina castables, low cement castables, ramming mass, plastics, high strength mortars, pre-cast shapes etc.

PRL has successfully produced and marketed its products for use in hydrocarbon, ferrous, non-ferrous, chemical, cement and other sectors. The products are also enlisted with leading consultants like Engineers India Ltd and MECON Ltd for supply and application of the products.

QUALITY ASSURANCE

We are fully committed to supply the best in class refractory products and we undertake stringent measures to ensure that we deliver quality materials as per specifications.

Our QA system consists of various checks at every stage of manufacturing – raw materials, trials and commercial production. This ensures that we deliver products, that will perform under the desired service conditions. Our quality system has been awarded ISO 9001:2008 certification by BM Trada for the entire range of our products.



BRICKS & TILES

Fire Clay & High Alumina Bricks: Fireclay & High Alumina dense fire bricks with high cold crushing strengths. High P.C.E. & RUL make these firebricks ideal for a variety of applications.

Insulating Bricks: Insulating bricks are specially formulated with uniform distribution of pores, so as to ensure maximum insulation and are suitable for temperatures up to 1650°C. Apart from low thermal conductivity, these bricks have high strength, low iron, low PLC and High P.C.E, making them ideal for Fertilizers, Refineries, Petrochemicals, Carbon, Chemical & Steel industries.

Carbon Bricks: Specially formulated chemical grade Carbon bricks are suitable for Phosphoric acid plants & Hydrofluoric acid areas etc. These are also available with low ash content.



CASTABLES & PRE-FIRED BLOCKS

Dense Castable: There is a wide range of dense castable available in high & medium purity varieties. These are hydraulically bonded for high temperature applications. They have good impact strength, high abrasion resistance with low shrinkage during operation.

Insulating Castable: Our PROLITE™ series of insulating castables provides minimum shrinkage and good volume stability. These are hydraulically bonded which develop superior strength at operating temperatures. Low thermal conductivity ensures minimum heat loss.

Pre Cast Pre Fired: The PCPF blocks ensures high quality product. It eliminates the drying process and also shortens the installation period. It is most suitable for complicated shapes and critical areas.

MORTARS

- **CERABOND™ - AR** is a special silicate type acid proof mortar. It consists of a liquid binder and porcelain / silica filler. As the mortar contains no reactive ingredients, it has excellent resistance to concentrated acids and chemicals. The mortar is totally inert to all organic solvents.
- **FURALSET™** mortar is a furane resin based bonding cement used for resistance to high concentration acids and alkalies and for temperatures up to 182 °C.
- **PHENOLSET™** is a phenolic resin cement. It is resistant to practically all non-oxidizing inorganic acids, organic acids, oil, grease and solvent. It is suitable for use upto temperatures of 145 °C. It is however not suitable for use under alkaline conditions



LINING & COATINGS

- **Epoxy & Vinyl Ester** coatings are used to create an impervious layer against fluids. These can be applied directly, with filler and with fiber mats. They are highly resistant to many acids and hydrocarbons, making them suitable for a variety of applications.
- **Rubber Lining** is available in natural and synthetic options. They provide excellent resistance against mineral acids, bases, organic solvents etc. They are also applied in areas to provide resistance to abrasion and wear. Rapid curing and excellent bonding to variety of substrates, makes rubber a very popular lining material.
- **BITUMASTIC™** is used for applying as monolithic layer over concrete surfaces. It is a powder mix preparation. It is melted and applied hot in layers of approx. 6 mm thick. After proper application, the layer becomes practically impervious to fluids. Before applying it is advisable to give one coat of priming solution to the concrete surface.



PRODUCTS

		Molten Sulphur Tanks
Dense Bricks	Fire Clay Series	
	High Alumina Series	
Insulating Bricks	HYPOR™ Series	■
	PACELL™ Series	■
Acid Resistant Bricks	IS-4860	■
	IS-4457	■
	Dome Brick & Grid Beam	
Carbon Bricks	PACARB™ Series	
Dense Castables	PACRETE™ Series	
	PACAST™ Series	
Insulating Castables	PROLITE™ Series	■
Mortars	CERABOND™ Series	■
	FURALSET™ Series	■
	PHENOLSET™ Series	■
Lining & Coatings	Epoxy based	
	Vinyl Ester based	
	Rubber Lining	
	BITUMASTIC™ Series	
Special Products	Partition Rings	
	Saddle Packings	
	Ceramic Ferrules	
	Ceramic Anchors	

PHOSPHORIC ACID APPLICATION

Besides our standard products, we can prepare customised recipes to suit your process conditions.

Please speak to our experts regarding your custom requirements.

PRODUCTS

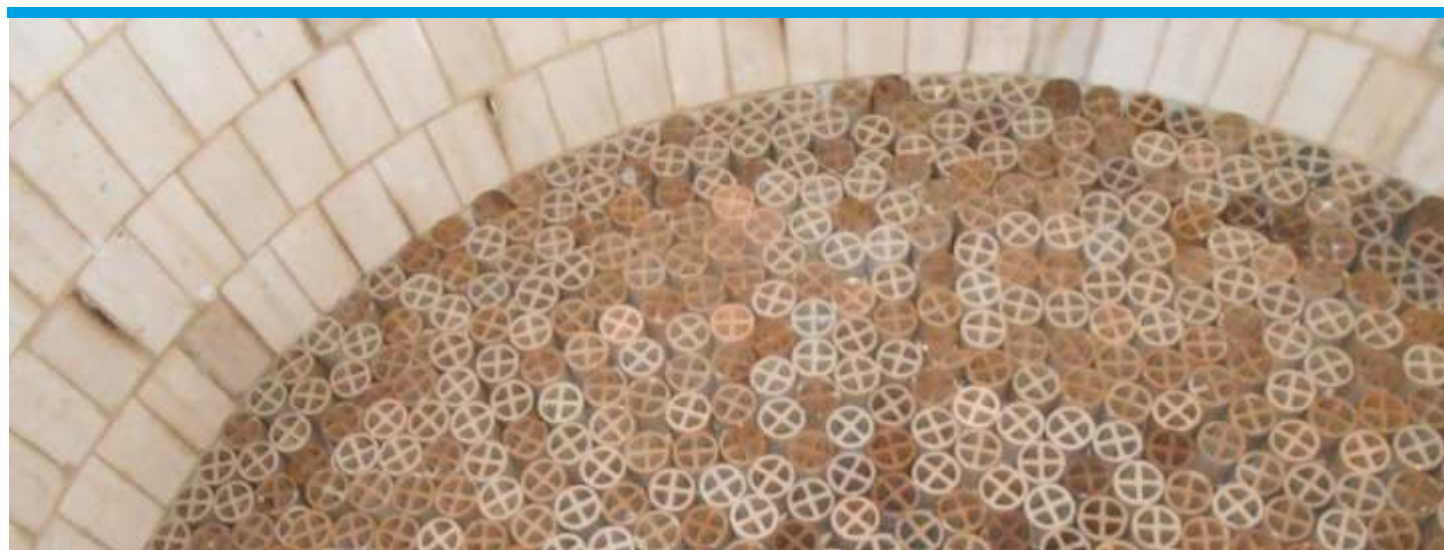
		Reaction Tanks	Storage Tanks	Gas Stack	Wall, Floor, Dyke Areas
Acid Resistant Bricks	IS-4860	■	■	■	■
	IS-4457	■		■	■
Carbon Bricks	PACARB™ Series	■	■		■
Mortars	CERABOND™ - AR	■		■	■
	FURALSET™ Series	■	■		■
	PHENOLSET™ Series		■		■
Linings & Coatings	Epoxy based				■
	Vinyl Ester based				■
	Rubber Lining		■		■
	BITUMASTIC™ Series				■

SULPHUR & SULPHURIC ACID APPLICATION

Combustion Furnace	WHRB, Tubesheet	Process Gas Heater	Gas Converter	Ab. Towers, Pump Tank	Scrubbing Towers	Gas Stack	Wall, Floor, Dyke Areas
■	■		■			■	
■	■	■	■			■	
■	■	■	■			■	
			■	■	■	■	■
				■	■	■	■
					■		■
■	■	■	■	■		■	
					■	■	■
					■	■	■
				■	■		■
			■	■	■		
■	■	■					

REFERENCES

Hindustan Zinc Ltd	Qatar Acids, Qatar
Grasim Industries	Mopani Copper, Zambia
IFFCO Ltd	OCP, Morocco
Rashtriya Chemicals and Fertilisers	AZOT, Russia
Paradeep Phosphates Ltd	MKE, Turkey
Sterlite Industries	Konkola Copper Mines, Zambia
FACT, Kochi	Ruashi Mines, D.R. Congo



SERVICES OFFERED

CONSULTANCY

- Field Investigations
- Troubleshooting
- Inspection Services
- Supervision Services

ENGINEERING

- Thermal Calculations
- Material Selection
- Detailed Engineering
- Construction Drawings

TOTAL REFRACTORY MANAGEMENT

MANUFACTURING

- Standard Product
- Custom Product
- Testing
- Packaging
- Delivery

APPLICATION

- Refractory application
- Thermal Dry-Out
- Commissioning
- Training



Pacific Refractories Ltd.

Office:

- C-16/3, TTC, MIDC Area, Thane-Belapur Road, Navi-Mumbai 400705. India
info@pacifcrefractories.com

Works:

- Pansal Road, Bhilwara – 311 011 Rajasthan, India
- 8-A National Highway Vaghasia, Wankaner - 363 622. Gujarat. India
sales@pacref.co.in



012