



# REFRACTECH PTY LTD

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## Your needs are our priority!

***AS/NZS ISO 9002 QUALITY APPROVED BY BVQI***

***Refractory Specialists and Industrial suppliers***

***Exclusive Distributor of the innovative **Thermbond.....*****

***SOLUTIONS THROUGH UNIQUE REFRACTORY TECHNOLOGY***

## **BULLETIN**

### **CUSTOM REFRACTORY SHAPES**

*Precision - tolerance refractory shapes for  
consistent quality and performance*

***About Refractech Pty. Ltd.....***

Through our manufacturing product division Refractech offers **THERMBOND** and **MAXICAST** refractory for all your Pre-cast applications. We specialise as a major manufacturer and supplier of precision - tolerance refractory, monolithic pre-cast shapes with consistent quality and performance for the mineral processing, iron and steel, aluminium, zinc, copper, petrochemical, chemical, power generation, foundry, die-casting and many other industries. Refractech offers the capability to design and precision-form the exact size and shape needed for your application. Our refractory manufacturing centre is a:

- 1,000 sq. metre casting facility.
- High - intensity paddle mixing capable of handling large cast shapes.
- Overhead crane with full building bridge travel.
- Drying and firing completed with a state of the art 540 degree celsius capability furnace.
- Utilize custom built formwork.
- Computer aided design facilities.
- **Quality Control and inspection facilities**

Our capabilities are backed by the most advanced refractory technology in the industry. Refractech's resources include unmatched expertise in the designing, blending, testing and formulating of specialized refractory castables. Refractech will also manufacture shapes from your specified castable refractory.

As a wholly owned company Refractech is uniquely structured to help solve refractory engineering, combustion and metallurgical problems to satisfy our customer's needs.

**MANUFACTURED PRODUCT DIVISION**  
**REFRACTECH SUPPLIES PRE - CAST AND CURED REFRACTORY**  
**SHAPES USING THE REVOLUTIONARY NEW THERMBOND**  
**CHEMICAL BOND REFRACTORY and MAXICAST CONVENTIONAL**  
**REFRACTORY!**

**Industrial Applications using MAXICAST Pre-formed Refractory**  
**Shapes that can be coated with the new FURNASCOAT NON VIT for**  
**extra protection against thermal shock and corrosion!**

**Aluminium Industry pre-formed refractory Shapes -**

**REDUCTION CELL AND ALUMINIUM TRANSFER**

- Phoscrete Hot Floor Pot Room Floor Construction Tiles
- Pot Room Cruse Bottom
- Spout For Cruse
- Cruse with Spout and Bottom
- Thermocouple Protection Tube
- Pre-cast tiles
- Metal handling/sampling tools

**METAL PRODUCTS CASTING AREA**

- Furnace Door Enclosure Assemblies
- Furnace Tap-out Blocks
- Aluminium Furnace Dry Hearth
- Furnace Thermocouple Protection Tube
- Refractory Dampers to replace stainless steel
- Aluminium Filter Bowls
- Refractory Skim Booms
- Furnace Door Jambs
- Door Perimeter Shapes
- Lintels
- Thermocouple Protection Tubes
- Degasser Preformed Tubs, "T" and Bell shapes
- Filter box and seating tile shapes
- Casting components, tubes, spouts, trough dams, control pins, floats, thimbles
- Metal handling / sampling tools
- Metallurgical fluxes, furnace cleaning fluxes
- Molten metal pumps and equipment

### CARBON ANODE BAKING FURNACE

- Headwall Cover Plate
- Pier Blocks
- Flue Wall Base Tile
- Flue Wall Duplex Capping
- Exhaust Port / Peep Hole Blocks and Plugs

### RODDING DEPARTMENT FOR IRON HANDLING

- Induction Furnace Lid
- Induction Furnace Top
- Induction Furnace Spout
- Iron Ladle Spout
- Preformed Prebaked Quartzite Crucibles
- Holding and Pouring Preformed Ladle Linings
- Molten metal tools

### *Zinc Smelting Preformed refractory shapes -*

- Pans and tubs for the Zinc Industry
- Transfer trough / launders
- Furnace Door Frames
- Refractory Impellers
- Induction Furnace Lids
- Unitised Furnace Door Frame
- Furnace Tap-Out Blocks
- Molten metal transfer and discharge pipes

### *Copper Industry pre-formed refractory shapes -*

- Waterless Door for the Copper Industry
- Transfer Trough
- Pouring Tubes and Downspouts
- Weirs and Dams
- Ladle covers
- Trough shapes and covers
- Fabricated insulating heat shields, gaskets, seals
- Flash furnace preformed shapes
- Reverberatory shapes
- Converter shapes, hood and mouth
- Anode furnace shapes, tuyeres

- Shaft furnace shapes, burner ports
- Slag cleaning furnace shapes

### **Steel Making pre-formed refractory shapes -**

- EAF (Electric Arc Furnace) Delta Section
- LMF (Ladle Metallurgy Furnace) Delta Section
- LTS (Ladle Treatment Station) Delta Section
- Blast Furnace runners
- Breast blocks
- Ladle Impact pads
- Ladle Well blocks
- Tundish Dams, weirs and baffles
- Tundish Covers
- BOS slag darts
- BOS Taphole shapes
- EAF spouts

### **Iron Making pre-formed refractory shapes -**

- BF Splash covers
- BF Iron troughs
- BF Trough covers
- BF Composite refractory tuyere stocks
- Treadwell ladle throats/neck
- BF Hot blast main
- BF Bustle pipe
- BF Off takes
- BF Up takes
- Precast shapes for BF Casthouse floor

### **Foundry Industry pre-formed refractory shapes -**

- Ingot casting shapes - pouring funnel, centre runner brick, horizontal runner brick and spider brick
- Pressure Pour Channel Induction furnace, working lining, backup lining, receiver and spout, roof shapes
- Coreless induction furnace, working lining, top cover and spout, coil grout and lining repair

- Horizontal Channel Induction furnace for iron - barrel working lining above slag line, barrel working lining at slag line, barrel working lining below slag line, precast throat, precast receiver and spout, backup above and below metal line
- Ladle pre-cast linings.

### **Lead smelting pre-formed refractory shapes** –

- Burner quarls and tiles
- Charge opening shapes
- Door shapes
- Rotary kiln blocks
- Dross furnace shapes
- Lead furnace shapes for all applications

### **Glass Manufacturing** -

- Precast shapes for the glass tank and regenerator
- Precast shapes for the sodium silicate tank and regenerators

### **Petroleum Refining-**

- Refractories and Precast shapes for the Fluid Catalytic Cracking Units
- Refractories and Precast shapes for Reactors and Regenerators
- Refractories and Precast shapes for Catalyst Transfer lines and Riser lines
- Refractories and Precast shapes for cyclones
- Refractories and Precast shapes for Air distribution grids
- Refractories and Precast shapes for Flue gas lines
- Refractories and Precast shapes for Seal Pots
- Refractories and Precast shapes for Gas Pre heaters
- Refractories and Precast shapes for Crude Oil heaters
- Refractories and Precast shapes for Sulphur Recovery Units

### **Resource Recovery Municipal Incinerator-**

- Precast shapes and refractories for :

- Inlet
- Combustion chamber
- Grate line
- Slag/ash tap out
- Ash hopper
- Insulating backup lining

## **INDUSTRIAL SUPPLY DIVISION**

### **Products for Molten Metals**

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- Thermbond chemical bond refractory products
- Maxicast hydraulic bond refractory products
- Dense alumina and silicon carbide ceramics
- Encapsulated insulated heat shields, gaskets, seals
- Refractory protective coatings- Furnascoat NonVit, Thermalcoat 300, Boron Nitride coating and lubricant.
- Metallurgical instruments for thermal analysis
- Molten metal filters, ceramic foam, silica cloth
- Fused silica pouring and casting shapes
- Bulk refractory castables, bricks, mortars, rammables
- Rotary Spinning degassing equipment
- Graphite diffusers and rotors
- Gaskets and door seals
- Type K and type R thermocouples, pyrometers, Marshal tips
- K cups for iron thermal analysis and instruments
- Silicon Nitride thermocouple protection tubes
- Ceramic cones, riser sleeves, special shapes
- Machined graphite parts
- High tech ceramics - Nitride bonded silicon carbide, Silicon nitride
- Zirconia refractories
- Steelmaking and Ironmaking refractories
- Foundry metal tools skimmers, ladles, spoons
- Molten Metal pump, rotors, shafts and equipment
- Flux injection equipment
- Spinning rotor degassing equipment
- Metallurgical cover, cleaning fluxes, lubricants and diecoats

### **Products for Industrial Use**

- General Pottery kiln refractories and furnace insulation and construction parts for the kiln

- Type K,R, thermocouples, pyrometers, optical, thermal analysis instrumentation
- Glass industry refractory materials
- Rigid seals and gaskets
- Heater box refractory linings
- Calcium silicate insulation board
- Ceramic Fibre products - rope, blanket, board, felt, expansion felt, paper, mastic, rigidiser, cement
- Fabricated door seals
- Fabricated flex seals
- Fabricated expansion joints
- High temperature fabrics
- Products for carbon bake operations
- Products for Aluminium reduction cells
- Products for Metal Products
- Products for copper smelters, foundries
- Products for zinc smelters, foundries
- Products for Iron-making and Steel-making BOS, Caster, Coke-making, heat treatment, steel ladles, iron pots, treadwells, Blast furnace and troughs
- Products for the Chemical Industry
- Products for the Petrochemical Industry

**The new, innovative ceramic coating for refractories and metal tools:  
FURNASCOAT NON VIT ZIRCON RICH CEMENTS AND COATINGS**

We supply Furnacecote Zircon-rich refractories :

1. To reduce **SLAG ADHESION**.
2. To reduce **SPALLING**.
3. To eliminate **CRACKING**.
4. To give **GAS TIGHT** surface.
5. To attach refractory to metal walls.
6. To reduce the effects of **THERMAL SHOCK**.
7. To protect refractories against the vicious attack and sand blasting effect of **BURNING FUEL OIL**.
8. To increase the working life of furnaces.

PLEASE CONTACT REFRACTECH PTY LTD AND DISCUSS YOUR NEEDS. FOR YOUR CONVENIENCE PLEASE ACCEPT OUR FOLLOWING MOBILE PHONE NUMBER.

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