



SHINAGAWA



REFRACTORIES AUSTRALASIA

GLOBAL PROVIDER OF THERMAL SOLUTIONS



Shinagawa Refractories Australasia

Adding value to your business...



Shinagawa Refractories Australasia is a wholly owned subsidiary of Shinagawa Refractories Company of Japan. Established in 1875 the Shinagawa Refractories Company is Japan's oldest and most respected refractory supplier. Shinagawa Japan has long been respected worldwide for its technological innovation and state-of-the-art research and development facilities covering all aspects of refractory usage from product formulation through to final application in industrial plant and equipment. This innovation and know-how is available to industry through Shinagawa.



Shinagawa has an impressive and unequalled refractory heritage. Originally formed through the combination of the two largest and most respected names in the Australian refractory manufacturing industry. Shinagawa now has operations in New Zealand and Indonesia. Shinagawa Refractories Australasia is proud to be the largest refractory supplier in the region.

Technical Expertise

Shinagawa personnel are experts in their field with **extensive experience** and knowledge to provide the **optimum technical solution** by way of **refractory design, material selection, installation support** and **project management**.

Shinagawa can provide **customer training** to **optimise refractory performance** and **maximise uptime**.

Shinagawa is committed to on-going **Research and Development** to ensure the changing needs of our customers are met. Our **dedicated R&D team** at Unanderra are strongly supported by the **extensive laboratory facilities of Shinagawa Japan**, a world leader in refractory development.

Manufacturing Locations

Shinagawa have 4 manufacturing facilities throughout Australasia and Southern Asia.

This allows **rapid response times**, for a **wide range of products** and **consistent product quality**.



All sites maintain **Quality Management Systems** in accordance with the requirements of **AS/NZS ISO 9001:2008** and ensure that employees actively participate in set quality objectives.

Global Resourcing

Shinagawa has established **strategic partnerships** with **accredited suppliers worldwide** to compliment Shinagawa's manufactured range.

Shinagawa hold **Technology Agreements** with global refractory leaders including access to the vast **technical know-how** of **Shinagawa Japan**.



Shinagawa Refractories Australasia

Servicing Industry Needs...

Iron & Steel

Shinagawa supplies refractories suitable for the most arduous of steel making environments. Applications include BOS vessels, Steel & Torpedo Ladles, Blast Furnace Troughs and Electric Arc Furnaces. **SHIRAMAG**[®] Basic Brick, **RESICAL**[®] Alumina Silicon Carbide Carbon Brick, **SHIRAL**[®] Alumina Brick, and **SHIRACRETE**[®] Low Cement Castables have proven performance in these applications. The product range also includes **CASTON**[®] Blast Furnace Trough Castable and **SHIRACLAY**[®] Tap Hole Clay. State-of-the-art shaped steel flow control refractories are also supplied from Shinagawa's plants in Japan and China.

Aluminium

Shinagawa has a range of products that are used in both primary and secondary aluminium. The range of **SHIRAL** brick are used in the anode bake furnace together with paving brick applications in the ingot mill and potrooms. Included in the product range are low cement **SHIRACRETE** products that are formulated to resist wetting with molten aluminium.

Alumina

Shinagawa has developed a range of **SHIRAGUN**[®] low cement gunning products that are used extensively in fluid bed calciners. These products have been formulated to provide optimum abrasion and thermal shock resistance.

Cement & Lime

NOVACRETE[®] is a shotcrete product range that provides significant installation benefits and is used in the cement industry. Shinagawa also provide a range of **SHIRAL** and Magnesia Spinel brick from accredited suppliers.

Glass

During the relining of glass tanks **SHIRAL** and Zircon (ZBK-L) brick and **SHIRACAST**[®] castables are installed as part of the relining.

Non Ferrous (Nickel & Copper)

SHIRACRETE and **SHIRACAST** products are used extensively in launder and ladle metal transfer vessels. High quality Magnesite and Magnesia Chrome brick products used in furnaces are also available.

MONOLITHIC REFRACTORIES

SHIRACAST

Conventional Dense Castable / Gunning

- Mullite
- Bauxite
- Andalusite
- Pure Alumina

SHIRACRETE, SHIRAFLO® & SHIRAGUN

Low Cement Vibration Cast / Gunning

- Mullite
- Bauxite
- Andalusite
- Pure Alumina

NOVACRETE

Wet Shotcrete

- Mullite
- Alumina / SiC / Zirconia
- Alumina / Zirconia

SHIRALITE®

Insulating Castable / Gunning

- Based upon light weight aggregates and calcium alumina cement

SHIRAMAG

Basic Monolithics

- Chemically Bonded High Purity Magnesia
- Magnesia Gunning Grade
- Chrome Magnesite Ramming / Castable Mixes
- High Quality Chrome Ore

SHIRABOND & SHIRASET

Mortar

- Heat and Airset Alumina / Silica
- Heat Set Magnesia
- Chemically Bonded Magnesia Chrome

SHIRAPLAS

Mouldables

- High Alumina / Heat Set / Graphitic
- High Alumina Chemically Bonded
- 40% Alumina Heat Set

PRECAST SHAPES

- Various Alumina Silica and SiC containing grades
- The operation at Unanderra is capable of manufacturing of ladle floors up to 6 metric tonne in size



SHAPED REFRACTORIES

SHIRAL

Fire Clay and High Alumina Bricks

- Fireclay
- Bauxite
- Sillimanite
- Pure Alumina
- Mullite



SHIRAMAG

Basic Bricks

- Magnesia
- Magnesia Chrome
- Magnesia Spinel
- Magnesia Dolomite



Silicon Carbide Bricks

- Self-bonding Silicon Carbide
- Ceramic bonding Silicon Carbide



Carbon-containing bricks

- Magnesia Carbon
- Alumina Carbon
- Alumina Silicon Carbide Carbon
- Alumina Magnesia Carbon



Functional products for Continuous Casting

- Slide Gate Plates
- Submerged Entry Nozzles
- Monoblock Stoppers
- Ladle Shrouds



Shaped refractories are sourced from Shinagawa Japan and other global supply partners.



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