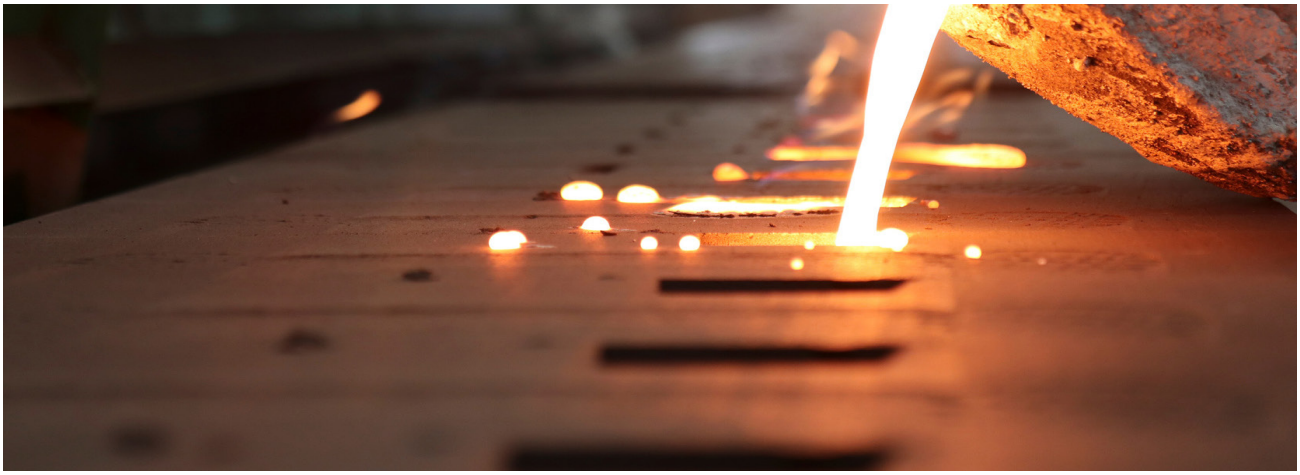
CHEMPORT
Specialty Chemical Experts



REFRACTORIES

We offer a wide variety of refractory materials, including cements, reactive binders such as colloidal-silica nano-sols, pigments, minerals, fibres, and graphite.

Chemport • Bulk Chemicals and Specialty Performance Materials • www.chemport.com.au • Suite 2.08, 32 Delhi Road, Macquarie Park, NSW, 2113, Australia • **Main** : +61 2 9188 9303 • **Email** : sales@chemport.com.au

CALCIUM ALUMINATE CEMENTS

Calcium Aluminate Cements

CACs offer rapid hardening, high heat resistance, long-term durability, easy handling, and extended workability—making them ideal for refractory applications. We offer a full range of CACs (40-80% Al2O3) for use in refractory mortars.

CAC80 – Calcium Aluminate Cement

High-purity calcium aluminate cement containing approximately 80% alumina, providing high hydration activity, early strength development, and excellent high-temperature performance for low-cement, ultra-low-cement, and high-purity refractory castables.

REACTIVE BINDERS

Lithium Silicates

Lithium Silicates are a source of silica and have excellent binding ability and can be used as a setting component in refractory cements. We offer various grades with different molar ratios of lithium silicate and hybrid blends, tailored for setting performance in refractory cements.

Colloidal Silica / Nano-sols

COLLOIDAL-SIL™ colloidal silica nano-sols act as a stable binder and silica source, forming long-lasting ceramic slurries with a wide range of refractory materials. We offer a variety of grades with different concentrations and cation profiles.

ALUMINA

Tabular Alumina

Tabular alumina is a sintered alpha alumina. Tabular alumina is used in high quality refractories. It provides high temperature resistance, thermal and chemical stability, abrasion resistance, high mechanical strength, and excellent shock resistance.

Brown Fused Alumina

Brown fused alumina is a dense material produced from bauxite raw material. The end product has a low iron content making it particularly valuable in a variety of refractory applications.

White Fused Alumina

White fused alumina is a very refractory, dense and chemically resistant material manufactured from calcined alumina. Recommended for use as a refractory flour.

BAUXITE

We offer various grades of Calcined Bauxite ranging from 60% Al2O3 to 92% Al2O3. Bauxite can be calcined in Rotary, Round or Shaft Kiln.

CHAMOTTE

Shaft Kiln Chamotte

Chamotte is high alumina calcined clay, used primarily for the production of ceramics and refractories.

For refractories, chamotte contains from 38% to 48% alumina in general. Iron is generally limited to 2.5% and alkalies must be also limited in amount to preserve refractoriness and thermal stability at temperatures up to 1400°C.

Calcined Grog

Calcined grog, also known as chamotte, is produced from high-quality ore deposits. It is widely used in refractories as an aggregate that offers excellent thermal resistance, minimal drying shrinkage, and low firing contraction.

PIGMENTS

Green Chromic Oxide

Chrome oxide is a green crystal powder, offers good coverage, high-temperature resistance, and strong lightfastness under sunlight. Chrome oxide green, which is nearly pure Cr2O3, is the most stable green pigment known. It is used for colouring roofing granules, cements, and plasters. It is also employed as a fine powder for polishing.

Manganese Oxide (Umber)

Manganese umber is a natural brown or reddish-brown pigment that is composed of manganese oxide and iron oxide. Manganese umber is used as a pigment in refractory materials such as bricks, pavers, roof tiles, and various ceramics.

MAGNESITE

Dead Burned Magnesia (DBM)

Dead burned magnesia (DBM) is main raw material for basic refractory products and it is widely used for production of shaped and unshaped refractories.

Fused Magnesite

Fused Magnesia (MgO) is normally manufactured by the electric arc melting of caustic calcined magnesia, deadburned magnesia or raw magnesite in furnaces at temperatures in excess of 2750°C, producing a refractory product with an altered crystalline structure, resulting in superior performance characteristics.

FIBRES

Polypropylene Fibres

Synthetic reinforcing fibres used in refractory castables to support crack control and permeability during drying and heat-up, helping reduce the risk of explosive spalling.

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