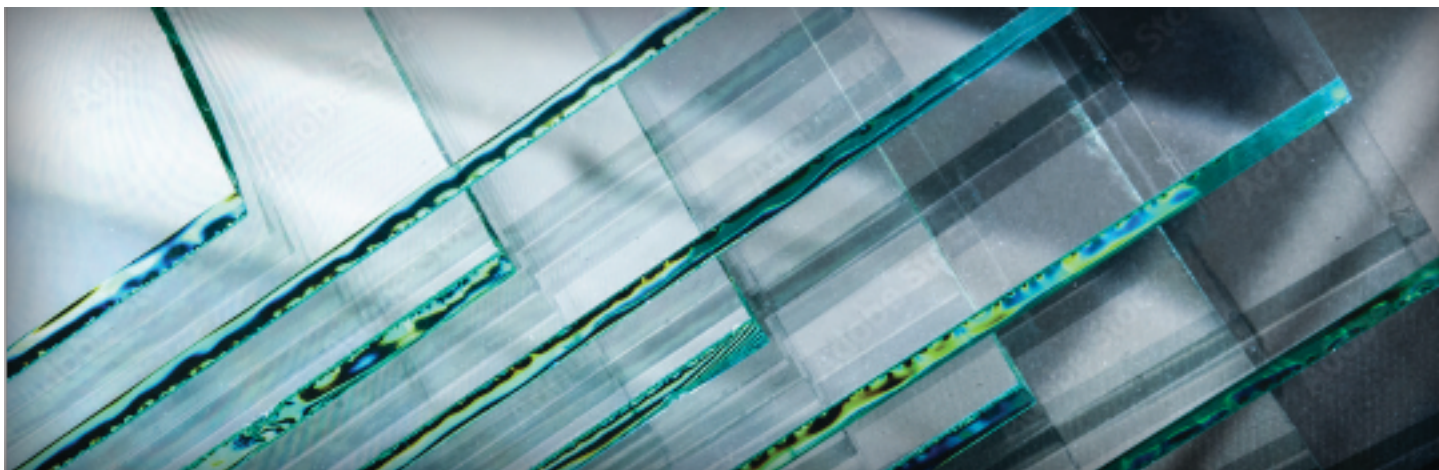




GLASS, GLAZES & CERAMICS

We supply a variety of raw materials to the glass and ceramics industries. Our product range includes refined clays, pigments, feldspars, silicas, petalite, and other essential minerals.

SILICA

Fused Silica

Fused Silica, also known as fused quartz, is a glass consisting of almost pure amorphous silica. It has a high working and melting temperature. It has high strength, electrical resistivity, thermal stability and UV transparency properties. It is used in high power vacuum tubes, lithography projection masks, data storage, and refractory applications such as steel making, investment casting and glass manufacture.

Milled Silica

Milled Silica is a fine powder form of silica. It is used as a filler in fiberglass and casting materials. Its addition increases strength and stability.

PIGMENTS

Green Chromic Oxide

Green Chromic Oxide is a green pigment used in glass and ceramics. It can be used at temperatures up to 1200°C.

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 the production of glass, glazes and ceramics. It is suitable for use in the production of bricks, pavers, roof tiles and many other ceramics.

Chromite Flour/Sand

Chromite Flour/Sand is a green pigment primarily used in glass bottle production. It has excellent heat tolerances and may act in a flux like manner.

FELDSPAR

Potassium

Potassium Feldspar is used as a flux in glassmaking and ceramics. It melts well at temperatures between 600 °C and 750 °C. Feldspars reduce the melting temperature, viscosity and helps create a glassy phase in ceramics. Feldspars increase the hardness, durability and chemical resistance of the finished product.

Sodium

Feldspars reduce the melting temperature and viscosity, and help create a glassy phase in ceramics. They also improve the hardness, durability, and chemical resistance of the final product. We supply a variety of feldspars.

Calcium

Feldspars reduce the melting temperature and viscosity, and help create a glassy phase in ceramics. They also improve the hardness, durability, and chemical resistance of the final product. We supply a variety of feldspars.

LITHIUM MINERALS

Spodumene

Spodumene is a pyroxene mineral and a source of lithia. It is used in glasses, ceramics, porcelain enamels, whitewares and glazes due to its powerful fluxing properties. It has low thermal expansion, reduces the melt viscosity, melting temperature and contributes to brilliancy and strength of the glass.

Petalite

Petalite, also known as castorite, is a lithium aluminium phyllosilicate mineral. It is used in ceramics, glass and enamels. The addition of petalite improves strength, density, acid resistance, heat resistance and gloss. It reduces melt viscosity, melting temperature, and thermal expansion, and promotes melt homogenisation.

LITHIUM ACETATE

LiOAc

Lithium Acetate (Anhydrous)

Lith™ LiOAc Lithium Acetate, Anhydrous a white granular powder that is freely soluble in water and short chain alcohols. Mainstream applications include: It is used as a buffer for ion exchange chromatography, in the production of industrial polymers and resins, as a precursor for lithium ceramic cathode materials in the manufacture of textiles and lubricant greases, Key component of solid polymer blend electrolytes, PVC stabilizer and as an antistatic additive.

LiF

Lithium Fluoride LiF Powder

Lith™ LiF Lithium Fluoride is most widely used as a flux in the production of ceramics, such as enamels, glasses and glazes. Similarly it is also used in brazing and welding flux and molten salt chemistry in metallurgy.

LITHIUM SILICATE

Li₂O₃Si

Lithium Silicate / Lith (LS/45)

Lith™ (LS/45) Lithium Silicate is an aqueous polysilicate solution with a molar ratio of 4.5 (ranging 4.35-5.0) that has a high concentration of lithium produced with Lithium Hydroxide. The reactive silicate forms a stable, high ratio, low viscosity solution.

Li₂O / K₂O / SiO₂

Lithium Potassium Silicate (LPS/39) Hybrid

Lith™ LPS/39 is an aqueous polysilicate hybrid blend solution with a molar ratio of 3.9 (ranging 3.8-4.0). Ideal for many applications, including concrete surface treatments, speciality paints and coatings, welding rod binders, refractory materials, ceramics and glazes

LITHIUM METASILICATE

Li₂SiO₃

Lithium Metasilicate

Used in glass system, molten salt system and high temperature ceramic glaze, also as a binder, mainly for inorganic zinc-rich coating and advanced electrodes.

LITHIUM SULPHATE

Li₂SO₄

Lithium Sulphate

Lith™ Li₂SO₄ Lithium Sulphate is used across a range of technical industries. It accelerates setting time in high alumina cements, is used as an additive in special glasses and photographic developing solutions, and is a catalyst in various polymer reactions. It is also the main component of electrolytes in large-scale battery formulations for grid storage applications.

LITHIUM CARBONATE

Li₂CO₃

Lithium Carbonate

Lithium Carbonate is a slightly soluble source of lithium. Used as a flux in leadless glazes. It is a source of lithia which is a strong, high temperature flux. It improves the brightness of glazes, increases the firing range, and reduces thermal expansion.

SPODUMENE

LiAl(SiO₃)₂

Spodumene

A source of lithia, which is a flux, that helps to develop copper blue tone glaze. Can replace feldspar and also reduces the vitrification temperature and shrinkage (contraction) rate in glazes and clays. Chemical grade from Australia. Almost all raw glazes contain kaolin and silica it is normally fairly easy to juggle recipe ingredients, using glaze chemistry, to replace lithium carbonate with spodumene (provided, of course, that the lithium carbonate percentage is not too high)Australia. Almost all raw glazes contain kaolin and silica it is normally fairly easy to juggle recipe ingredients. Using glaze chemistry, lithium carbonate can often be replaced with spodumene—provided the lithium carbonate content in the original recipe is not too high. This approach is particularly useful in Australia, where spodumene is locally sourced.



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