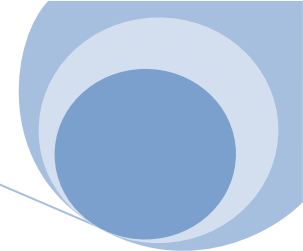


# CERAMIC AND GLASS CHEMICALS



## Zirconium Silicate (ALUKA)

Raw Material is Australian Zircon Sand

**Product name:** Zirconium Silicate

**Molecular formula:** ZrSiO<sub>4</sub>

**Cas No :** 10101-52-7

### Properties:

1. Crystal system: quadratic system = 6.56Å = 5.97Å and Refractive index: 1.95
2. Density: 4.6-4.7 and Melting point: 2550 °C
3. Transition point: 1550°C thermal decomposition (ZrO<sub>2</sub> + SiO<sub>2</sub>)
4. Coefficient of thermal expansion:  $4.5 \times 10^{-6}$  (20-1400°C)

**Uses:** It can whiten zirconium material, gem, catalyzer, and adhesive material, glass polishing compound, resistance, insulator, refractory materials and glaze. It can take the place of expensive cassiterite, zirconium dioxide, and mean particle size: 1µm-1.5µm.

### Chemical Composition :

ZrO<sub>2</sub>: 63.5% Min

Fe<sub>2</sub>O<sub>3</sub>: 0.10% Max

TiO<sub>2</sub> : 0.13% Max

White Degree : 91

Melting Temperature : 2200°C

Thermal Expansion:  $4.2 \times 10^{-6}$

Hardness ( Mohs ): 7.5

Quantity for white glaze: 8-14%

Quantity for color glaze: 6-10%

Granularity: < 3µm 98%

**Particle size** < 5µm

**Package:** Kraft Paper, 25kg/bag, without palette.