



Zirconium Silicate

Description

- A fine white mineral powder that is chemically inert and stable to very high temperatures. Insoluble in water, dilute acids and hot concentrated sulfuric acid.
- Chemical Name: Zirconium Silicate
- Chemical Formula: $ZrSiO_4$

Synonyms

- zircon, zircon sand, zirconium silicate, zirconium orthosilicate, $ZrSiO_4$, hyacinth, silicic acid zirconium(4+) salt, zirconium silicon oxide, CAS# 10101-52-7 HS № 28399090

Chemical Properties

- Zr (Hf) O₂ = <65.9%, SiO₂ = < 33.0% Fe₂O₃ <0,03% ,TiO₂ < 0,1 % Al₂O₃ <0,5 % Super Low Impurities S+P <0,05%

Typical Applications

- Primary source for investment casting shell molds, foundry cores, metal chills, ladle brick, welding rod coatings, abrasive cleaning, ceramic industry and mold washes.

Packaging & Size of Powder

- 1-2 mt big-bags . 25-50 kg. net bags , D = 100% according customer request

Atomic Number	where applicable
Molecular Weight (g/mol.)	183.1
Bulk Density (lbs./ft. ³)	172-182
Specific Gravity	4.5-4.6
Solid Specific Heat	0.132
Melting Point (°C)	2200-2550
Boiling Point (°C)	2200-2550
Surface Area (m ² /g)	2200-2550
Thermal Conductivity @20°C (cal/s-cm-°C)	
Mohs Hardness @20°C	7.5-8.0
Color	off-white