

Lorh La Seng Commercial Sole Company Limited

Borikhamxay Province, Lao PDR
jennylalita1@gmail.com | +856 20 [Your Phone] | Export: Cua Lo Port, Vietnam

Technical Data Sheet - High-Purity Quartz

Chemical Composition (ICP-MS Analysis)

Element	Grade A Spec	Grade B Spec	Typical Value
SiO ₂	99.5-99.89%	99.0-99.49%	99.6% (Grade A)
Fe ₂ O ₃ (Iron)	0.24-0.30 ppm	< 500 ppm	0.27 ppm
B (Boron)	34.6 ppb	< 100 ppb	34.6 ppb
Al ₂ O ₃	< 500 ppm	< 1000 ppm	350 ppm
TiO ₂	< 200 ppm	< 500 ppm	180 ppm
Na ₂ O	< 50 ppm	< 200 ppm	40 ppm
K ₂ O	< 50 ppm	< 200 ppm	35 ppm
CaO	< 100 ppm	< 300 ppm	80 ppm
MgO	< 50 ppm	< 150 ppm	42 ppm
P ₂ O ₅	< 50 ppm	< 100 ppm	38 ppm

Physical Properties

Property	Value
Particle Size Range	10-500 µm (customizable)
Bulk Density	1.4-1.6 g/cm ³
Melting Point	1710°C
Mohs Hardness	7
Color	White to translucent

Crystalline Structure	Hexagonal
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Quality Control

- ICP-MS analysis for all batches
- XRF verification
- Particle size distribution analysis
- Certificate of Analysis (COA) provided with each shipment

Packaging

- Sample: 2-5 kg in sealed bags
- Bulk: 25 kg bags or 1000 kg super sacks
- Custom packaging available upon request