

Sapphire Ball 4.8mm Ø

sapphire-windows-sapphire-lens

sapphire-ball-lens

Specifications of Sapphire Ball SBL48U

Code: SBL48U

Material: Optical grade single Sapphire crystal

Diameter: 4.8mm

Tolerance: ± 0.005 mm

Surface Quality S/D: 60/40

Clear Aperture: >90%

Sphericity: 0.005mm

Compressive Strength: 300,000 (psi)

Coating: AR Coating

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Sapphire Balls Features and Applications:

1. High transparent to wavelengths of light between 0.3 μm (UV) and 5 μm (IR),
2. Extremely hard and resistant to attack by strong acid.
3. Highly resistant to scratching.
4. Extremely high melting temperature (2030°C).
5. Suitable for the applications of fiber optic connectors, flow meters, rotameters, and bar code scanners.

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Custom Specifications of Sapphire Ball:

Diameters: 1 mm to 150mm

Diameters tolerance: +/- 0.001mm

Roundness: < 0.003

Surface quality: Up to 20/10

Surfaces accuracy: < 2λ

Clear aperture: > 90%

Sphericity: Up to 0.6 μ m

Coating: AR coating