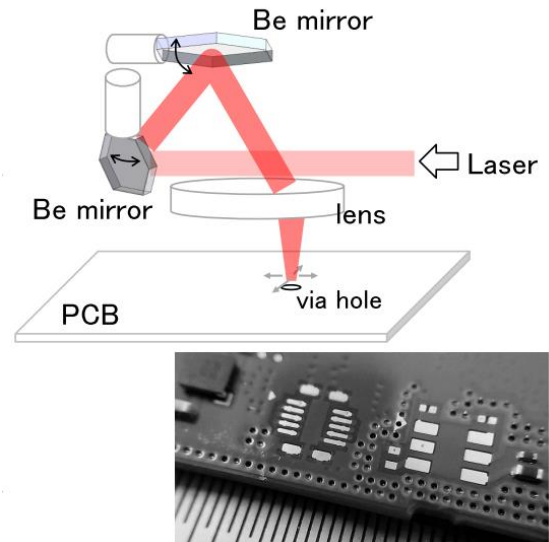


Beryllium Mirrors

Excellent for High Power, Speed and Precision Processing with Laser Scanner

Typical Applications

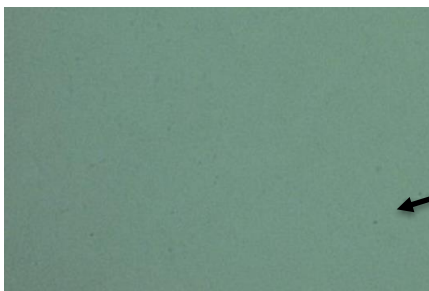
PCB (Printed Circuit Board) Drilling, Marking, Medical Imaging, Confocal microscopy



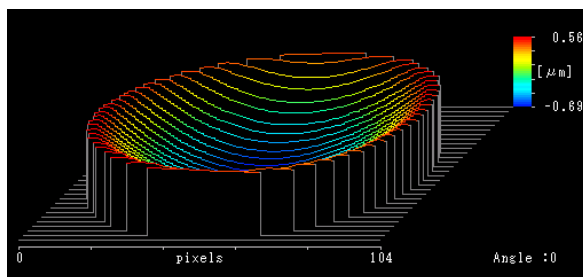
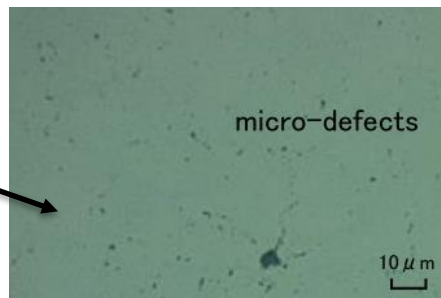
Standard Chemical Composition

For Optical: Be $\geq 99.0\%$, BeO $\leq 0.7\%$

General: Be $\geq 98.5\%$, BeO $\leq 1.5\%$



Polished surface



Security • Reliability • Performance



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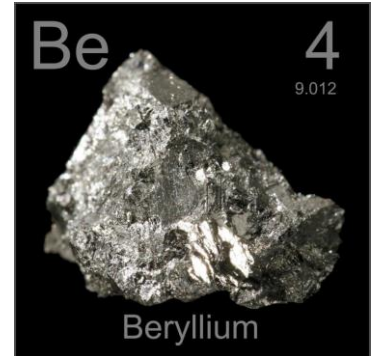
EN 9100 ISO 14001
ISO 9001 ISO 45001

BERYLLIUM PROPERTIES

Fourth element of the periodic table, divalent element of the alkaline-earth metal group, metal with a silvery gray appearance

An unique combination of properties

- Light weight, low density (beryllium is 1/3 lighter than aluminium)
- High specific stiffness (about 6 times of steel) and elasticity
- Excellent heat resistance
(Beryllium has the highest melting point of all light metals)
- Excellent acoustic velocity and transparency of the sound
(Pure beryllium diaphragms are used in top-of-the-range audio equipment)
- Excellent X-ray transmissivity. Beryllium also is non-magnetic
- Excellent optical reflectivity. Beryllium is used for mirrors of laser scanners
- Excellent thermal and electrical conductivity



Properties in comparison with Silica

Properties	Beryllium Be	Silica
Density (g/cm ³)	1.84 <i>Lighter</i>	2.2
Young's Modulus (GPa)	275 <i>Stiffer</i>	72
Thermal Conductivity (W/ (m*K))	180 <i>Cooler</i>	1.5

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