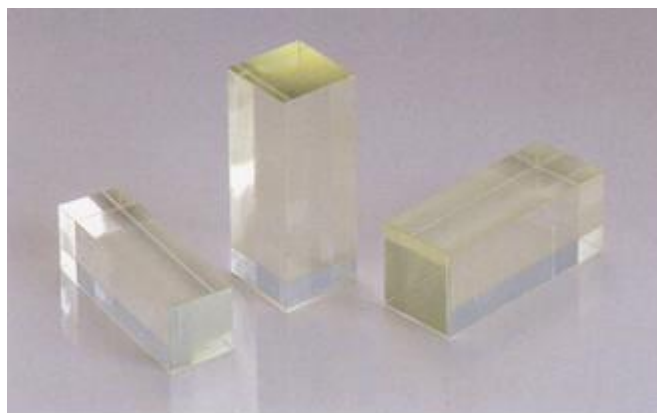




Magnesium Oxide (MgO)

Among several expected materials for super conductive thin film application, MgO is regarded as alternatives with potentiality. The main composition is Bi-Sr-Ca-Cu-O based materials are studied in academic field. MgO is also used for Optical window materials and Pyroelectric infrared ray sensors.



References

Crystal System	Tetrahedral
Crystalline Type	NaCl type
Cleaved Face	(100)
Color	Colorless
Purity	99.9%
Lattice Constant	$a = 4.212 \text{ \AA}$
Density	3.58 g/cm ³
Melting Point	2,850°C
Mohs' Hardness	5.5~6.0
Refractive Index ($\lambda = 0.6 \mu\text{m}$)	1.76
Transmission Wavelength Range	0.3~7.0 μm
Dielectric Constant	10.0~7.0um
Coefficient of Thermal Expansion ($\times 10^{-6}/^{\circ}\text{C}$)	13.1 (800°C)

Standard Wafer Sizes

2"φ × 0.5mm、3"φ × 0.5mm、

10 × 10 × 0.5mm、15 × 15 × 0.5mm、20 × 20 × 0.5mm

Surface : One side polished、Both side polished

※Please inquire us for your special requirement.

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