

上海奥普特科晶体材料有限公司 Shanghai Opticrystal Materials Co., Ltd

MgO Magnesium oxide:

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MgO Magnesium oxide is an excellent single crystal substrate, widely used in the production of ferroelectric film, magnetic film, light point film and high temperature superconducting film. Because of its small dielectric constant and loss in microwave band, it is one of the important high temperature superconducting thin film in current industrialization. It can be used to make high temperature superconducting microwave filter and other devices needed for mobile communication devices.

Materials Properties:

| Growing directions | arc process |
|-------------------------------------|---|
| Crystal structure | cube |
| Lattice constant | a=4.130 Å |
| Melting point | 2800 (°C) |
| Fineness | 99.95% |
| Density | 3.58 (g/cm ³) |
| Hardness | 5.5 (mohs) |
| Thermal expansion coefficient | 11.2x10 ⁻⁶ (/°C) |
| Crystal cleavage surface | <100> |
| Optical transmission | >90% (200~1000nm) |
| Dielectric constant | ε= 9.65 |
| Heat conductivity | 36 W/m.k @ 300°K |
| Size | 5x5 , 10x10 , 20x20 , 30x30mm ,Ø50.8 mm |
| Thickness | 0.5mm , 1.0mm |
| Polishing | Single or double-sided |
| Crystal orientation | <001>, <110>,<111> |
| Crystal face orientation precision: | ±0.5° |
| Edge orientation precision: | 2° (up to 1°) |
| Ra: | ≤5Å (5µm×5µm) |
| pack | 100 clean bag, 1000 ultra-clean room |

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