

MgO – Magnesium Oxide

CRYSTAL GROWTH

Growth Method	Arc Melting
Growth Direction	[100]
Max. Diameter (inch)	Ø 2"

CRYSTALLOGRAPHIC PROPERTIES

Crystal Structure	cubic
Lattice Constant (nm)	$a = 0.4203$ without twins cleavage plane (100)

PHYSICAL PROPERTIES

Color	colorless
Density (g/cm³)	3.58
Melting Point (K)	3073
Thermal Expansion (10⁻⁶K⁻¹)	12.8
Dielectric Constant	9.8
Loss Tangent (@ 77K, 10GHz)	$\sim 9 \times 10^{-3}$
Hardness (Mohs)	5.8

