

TiO₂ – Titanium Oxide

CRYSTAL GROWTH

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|-----------------------------|----------|
| Growth Method | Verneuil |
| Max. Diameter (inch) | Ø1" |

CRYSTALLOGRAPHIC PROPERTIES

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|------------------------------|--------------------------|
| Crystal Structure | tetragonal |
| Lattice Constant (nm) | a = 0.4593 c = 0.2959 |

PHYSICAL PROPERTIES

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|--|---------------------|
| Color | pale yellow |
| Density (g/cm³) | 4.25 |
| Melting Point (K) | 2113 |
| Thermal Expansion (10⁻⁶K⁻¹) | 9.19 c, 7.2 ⊥ c |
| Dielectric Constant | 170 c, 88 ⊥ c |
| Loss Tangent (@ 77K, 10GHz) | 17×10 ⁻³ |
| Hardness (Mohs) | 6.5 |

