

Si – Silicon

CRYSTAL GROWTH

Growth Method	Czochralski, Floating Zone
Growth Direction	[100], [111]
Max. Diameter (inch)	Ø 4"

CRYSTALLOGRAPHIC PROPERTIES

Crystal Structure	cubic
Lattice Constant (nm)	$a = 0.543095$

PHYSICAL PROPERTIES

Color	metallic
Melting Point (K)	1690
Thermal Expansion ($10^{-6}K^{-1}$)	2.3
Thermal Conductivity (W/mk)	147
Band Gap (eV at 273K)	1.106
Hardness (Mohs)	7

