

Germanium

Ge Single Crystals and Wafers

MTI supplies high quality Ge single crystal of boules, blank and polished wafer up to 5" diameter at the most competitive price. If you need any Ge crystal, whatever small or bulk quantity, MTI is committed to satisfying your demand. For technical assistance or instant quotation, please contact us at toll free of 1-888-525-3070

Typical Specifications

General Properties	Structure:	Cubic, a = 5.6754 Å		
	Density:	5.323 g/cm ³ at room temperature		
	Melting Point:	937.4 °C		
	Thermal Conductivity:	640		
	Thermal Expansion:			
Crystal Growth Technology	Czochralski			
Doping available	Undoped	Sb Doping	Doping In or Ga	
Conductive Type	/	N	P	
Resistivity, Ωcm	>35	0.001~18	0.001 - 0.18	
EPD	< 4x10 ³ /cm ²	< 4x10 ³ /cm ²	< 4x10 ³ /cm ²	
Crystal Grades and Application (please specify when you order)	Electronic Grade: Used for diodes and transistors Infrared Grade: Used for IR optical window Cell Grade: Used for substrates of solar cell			

Standard Specs of Ge Crystal and wafers

Crystal Orientation	<111>, <100> and <110> ± 0.5° or special orientation			
Crystal boule as grown	φ1" ~ φ5" diameter x 200 mm Length			
Standard blank as cut	φ 1"x 0.5mm,	φ2"x0.6mm,	φ4"x0.7mm	φ5"x0.8mm
Standard Polished wafer One or two sides polished	φ 1"x 0.30 mm,	φ2"x0.5mm,	φ4"x0.5mm	φ5"x0.6mm
Special size and orientation are available upon request				

MTI Corporation

860 South 19th Street, Richmond, CA 94804, USA
 Tel: (510)525-3070 Fax: (510)525-4058 E-mail: info@mtixtl.com Website: www.mtixtl.com