

Germanium

for Research and Development



CrysTec

KRISTALLTECHNOLOGIE

Growth Method:	Czochralski-technique
Crystal Structure:	diamond, cubic
Density (25°C):	5,323 g/cm ³ 4,42 x 10 ²² atoms/cm ³
Lattice Constant:	0,5657 nm
Standard Orientation:	(100) ± 0,5° (111) ± 0,5° (110) ± 0,5°
Standard Sizes/ Standard Thickness:	∅ 1 inch 300 µm ∅ 2 inch 300 µm ∅ 3 inch 300 µm ∅ 100 mm 300 µm

Germanium one- or both side epipolished

Germanium with special orientation

Germanium with special shape

Physical Properties:

Gallium (Ga) – doped, p – type

0,1...0,3 Ωcm, 1 - 10 Ωcm,

Dislocation Density

< 500 cm⁻²

Antimon (Sb) – doped, n – type

< 0,4 Ωcm, 1 - 10 Ωcm,

< 500 cm⁻²

Undoped

n – type
> 30 Ωcm

< 500 cm⁻²

► Special orientations , other sizes and thicknesses and both side polished wafers on request