

Magnesium Aluminate ($MgAl_2O_4$)

Bulk Acoustic Wave Microwave Devices
 Super-conducting Epitaxial Substrates
 Fast IC Epitaxial Substrates

Crystal Properties	Crystal Class	Cubic
	Point Group	m3m
	Space Group	Fd3m
	Lattice Parameter	a 0.8085 nm
	Melting Point	2130 °C
	Density	3.64 g/cm ³
	Hardness	8.00 Mohs
	Phase Velocity	6500 m/s ([100] Shear)
	Propagation Loss	6.5 dB/μs ([100] Shear 9GHz)

Specifications	Boules	Typical Diameter	ø 35±2 mm
		Typical Length	60 mm
		Typical Orientation	[001] [110]
	Wafers	Typical Diameter	ø 32±2 mm
		Typical Thickness	0.2 ~ 1.0 mm
		Typical Orientation	[001] [110]
		Polish	0.25 ~ 0.016 μm
		Flatness	≤ 15 μm
		Bow	≤ 15 μm

