

Normal pressure sintering Aluminum Nitride for Semiconductors.

Characteristics

- The heat conduction, heat radiation rate is large, and soaking characteristics are high.
- By thermal expansion near Si, I prevent the transformation of the wafer by the temperature change and reduce particle generating by the detachment of the deposit film.
- · Corrosion resistance of the fluorine-based gas is high.
- · AlN is superior in plasma characteristics-resistant.

Specification;

[max]	ф500	[Thickness]	0.25-30mm
Thermal conductivity		W/m·K(RT)	170
Heat radiation rate		(100°C)	0.93
Coefficient of thermal expansion		10 ⁻⁶ /°C(RT~400°C)	4.5
Insulation resistance		Ω • cm(RT)	>10 ¹³
Insulation dielectric voltage		kV/mm(RT)	15
Dielectric constant		(1MHz)	8.8
Dielectric loss		10-4(1MHz)	5
Bending strength		MPa	350
Density		g/cm ³	3.3
Y(Yttrium)		wt%	3.4
O(Oxygen)		%	1.7



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