

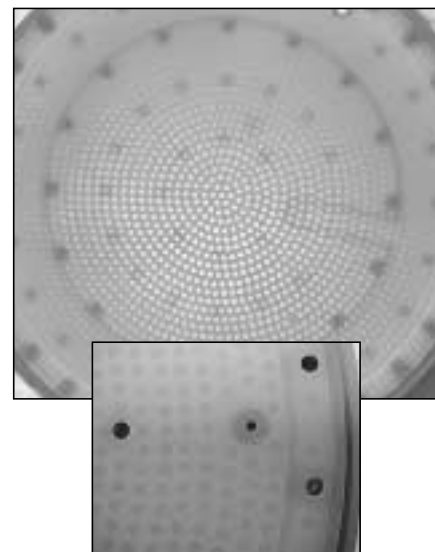
AlNimax™ Aluminum Nitride



Saint-Gobain Ceramics Structural Ceramics

AlNimax™ aluminum nitride is a high purity, fully dense ceramic material that features excellent plasma resistance and superior thermal properties. These characteristics provide improved component life and reliable performance for silicon wafer processing. Manufacturing process flexibility allows the integration of features such as refractory metal layers, electrical terminations and embossed surfaces to provide leading edge solutions.

Property	Units	AlNimax HP
Composition	%	>99.9 AlN
Bulk Density	gm/cm ³	3.26
Grain Size (Average)	μm	3
Flexural Strength RT (4-point)	MPa	340
Fracture Toughness (Indentation)	MPam ^{1/2}	2.6
Coefficient of Thermal Expansion (RT-700°C)	X 10 ⁻⁶ per K	5.0
Thermal Conductivity @ RT	W/mK	80
Electrical Resistivity @ RT	Ohm.cm	>10 ¹³
Dielectric Constant (RT, 1 MHz)	—	9
Loss Tangent (RT, 1 MHz)	—	<10 ⁻³



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AlNimax™ is a trademark of Saint-Gobain Ceramics.

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