



Polished Aluminum Nitride (ALN) Ceramic Substrate

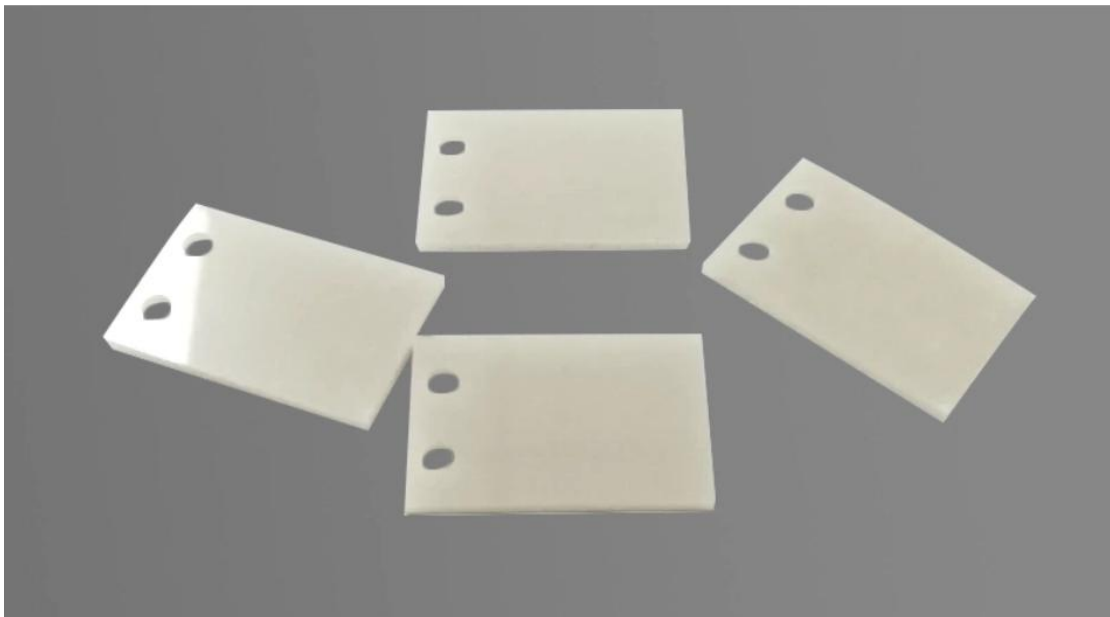
GREENWAY is a manufacturer and supplier of Polished Aluminum Nitride (ALN) Ceramic Substrate. The aluminum nitride (ALN) ceramic has high thermal conductivity (5-10 times as the alumina ceramic), low dielectric constant and dissipation factor, good insulation and excellent mechanical properties, non-toxic, high thermal resistance, chemical resistance, and the linear expansion coefficient is similar with Si, which is widely used in communication components, high power led, power electronic devices and other fields. Special spec products can be

produced upon requests.

Model: Aluminum Nitride Ceramic Substrate

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Aluminum Nitride (ALN) Ceramic Substrate PERFORMANCE

- High thermal conductivity, high flexural strength, high temperature
- Good electrical insulation
- Low dielectric constant and loss
- Able to be laser drilled, metallized, plated and brazed



Regular Dimensions of AlN Substrate/Wafer

Specifications/ Thickness	0.254	0.381	0.5	0.635	0.8	1.0	1.5	2.0	2.5	3.0
114.3*114.3mm	★	★	★	★	★	★	★	★	★	★
120*120mm	★	★	★	★	★	★	★	★	★	★
124*124mm		★	★	★	★	★	★	★	★	★
152*152mm				★	★	★	★	★	★	★
140*190mm				★	★	★	★	★	★	★
152*203mm					★	★	★	★	★	★
203*203mm					★	★	★	★	★	★
220*220mm						★	★	★	★	★
110*290mm					★	★	★	★	★	★

PS: Other dimensions which are not listed are available upon your requests.

Aluminum Nitride (ALN) Ceramic Substrate Features

- 1.Uniform microstructure
- 2.High thermal conductivity* (70-180 Wm-1K-1), tailored via processing conditions and additives
- 3.High electrical resistivity
- 4.Thermal expansion coefficient close to that of Silicon
- 5.Resistance to corrosion and erosion
- 6.Excellent thermal shock resistance
- 7.Chemically stable up to 980°C in H₂ and CO₂ atmospheres, and in air up to 1380°C (surface oxidation occurs around 780°C; the surface layer protects the bulk up to 1380°C).

