

All technical data presented represent typical results, unless stated otherwise as min/max values. No guarantee is made that material will meet exactly the values shown.

Aluminum Nitride Substrates



Zipro Technology Corporation

德銛科技股份有限公司

3F, No. 107, Sec. 4, Nanjing E. Road, Songshan Dist, Taipei City 105023, Taiwan (R.O.C.)

T: +886-2-2627-5586 F: +886-2-2627-5608

www.ziprotech.com

Aluminum Nitride Ceramic Substrates Specifications

Item No: ZP-ANS47	Unit	Value	Reference
Density	g/cm ³	≥3.26	ASTM C373
Thermal Conductivity (25°C)	W/m. K	≥170	ISO/DIS 22007-2.2
Coefficient of Thermal Expansion RT ~300°C	x10 ⁻⁶ /°C	3.16	ASTM C372-94
Coefficient of Thermal Expansion RT ~500°C	x10 ⁻⁶ /°C	4.02	ASTM C372-94
Dielectric Strength	V/m	≥19	ASTM D149
Dielectric Constant at 1MHz		10	ASTM D150
Dielectric Loss at 1MHz	x10 ⁻³	3	ASTM D150
Volume Resistant	Ω-cm	≥10 ¹⁴	ASTM D257
3-Point Flexural Strength	Mpa	≥300	ASTM D150
Surface Roughness in Ra	μm	≤0.6	JIS B 0601-94
Color		Grey	

Standard Dimensions:	Standard
Dimensions	4.5" x 4.5" 4.7" x 4.7"
Dimension Tolerance	±1%
Thickness	0.38-1.0mm (fired)
Thickness Tolerance	± 10%

Country of Manufacture: Taiwan

Product Images:



Application: Advanced energy, Advanced ceramics, Specialty materials
Product type: Consumables, Components
Production scale: Commercial
Search tags: Substrates