

## Technical Data Sheet

**Product Name:** Aluminum Nitride Rod  
**Catalog No.:** SN3995  
**Density:** 3.32 g/cm<sup>3</sup>  
**Shape:** Ring  
**Purity:** 95%~99%



### Properties

Properties	Unit	Value
Purity	wt%	95%AlN+%Y2O3
Density	g/cm <sup>3</sup>	3.32
Bending Strength	Mpa	410
Young's Modulus	Gpa	>320
Hardness HV1	-	1000
Maximum Service Temperature in Air	°C	800
Linear Coefficient of Expansion 40 - 400°C	10 <sup>-6</sup> / K	4.6
Linear Coefficient of Expansion 40 - 800°C	10 <sup>-6</sup> / K	5.3
Specific Heat	J / (kg.K)	740
Thermal Conductivity 100°C	W/m.k	170
Resistivity 20°C	Ωx cm	1x10 <sup>14</sup>
Resistivity 300°C	Ωx cm	1x10 <sup>12</sup>
Resistivity 500°C	Ωx cm	1x10 <sup>10</sup>
Volume Resistivity	Ohm.cm	1x10 <sup>14</sup>
Dielectric Strength	KV/mm	>15
Dielectric Constant	1 MHz	>8.6

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