



### Aluminum Nitride Disc

Aluminum nitride is a high-performance material particularly suited to demanding electrical applications. Nextgen Advanced Materials supplies aluminum nitride disc with high quality and fast delivery. Customization is also available.

#### Product Description

As the professional manufacture, we would like to provide you Nextgen Aluminum Nitride Disc. Aluminum nitride is a high-performance material particularly suited to demanding electrical applications. Aluminum nitride can be produced by dry press and sinter or by hot pressing with appropriate sintering aids, whose processes results in a material that is stable at high temperatures in a range of inert environments including hydrogen and carbon dioxide atmospheres.

Aluminum nitride disc is principally used in the electronics area, particularly when heat removal is an important function. Aluminum nitride properties also make it particularly useful in the creation of corrosion-resistant products.



#### Property of Aluminum Nitride

Item	Unit	Parameter
Thermal Conductivity	30°C W/m.k	≥170
Density	g/cm <sup>3</sup>	3.335
Copper bonding capacity	N/cm <sup>2</sup>	≥20N
Flexural strength	MPa	382.7

Dielectric constant	1MHz	8.56
Thermal conductivity of copper	W/m.K	385
Rockwell hardness	HRA	80-90
Surface roughness	$\mu\text{m}$	0.3~0.5
Warping degree	length‰	$\leq 2\text{‰}$