



Beryllium Oxide Ceramic Substrate

Beryllium oxide ceramic substrate features a unique combination of thermal, dielectric, and mechanical properties. Nextgen Advanced Materials supplies Beryllium oxide ceramic substrate with high quality and fast delivery, and customized products are also available.

Product Description

You can rest assured to buy customized Nextgen Beryllium Oxide Ceramic Substrate from us. We look forward to cooperating with you, if you want to know more, you can consult us now, we will reply to you in time! Beryllium oxide ceramic substrates are made of high purity beryllium oxide ceramics. Beryllium oxide, or beryllia, is the best ceramic thermal conductor and competes with the most conductive metals, and its electrical isolation is equivalent to that of alumina and the best electrical insulators.

Beryllium oxide ceramic substrates are produced by ceramic fabrication techniques, followed by sintering at temperatures above 1500 °C. By applying precision fabricating techniques, close dimensional tolerances and high surface smoothness can be obtained for maximum compatibility with metal components. BeO substrates possess a unique combination of thermal, dielectric, and mechanical properties, and they are highly desirable in electronic applications.



Beryllium Oxide Ceramic Substrates Specifications

Testing Entries	Testing Conditions	Properties
Flexural Strength	/	≥170MPa
Thermal Conductivity	25 °C	≥250W/m·k



Nextgen Advanced Materials INC

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	100°C	$\geq 190\text{W/m}\cdot\text{k}$
Permittivity	1MHz 20°C	6.5-7.5
	10GHz 20°C	6.5-7.5
Volume Resistivity	25°C	$\geq 10^{14}\Omega\cdot\text{cm}$
	300°C	$\geq 10^{11}\Omega\cdot\text{cm}$