

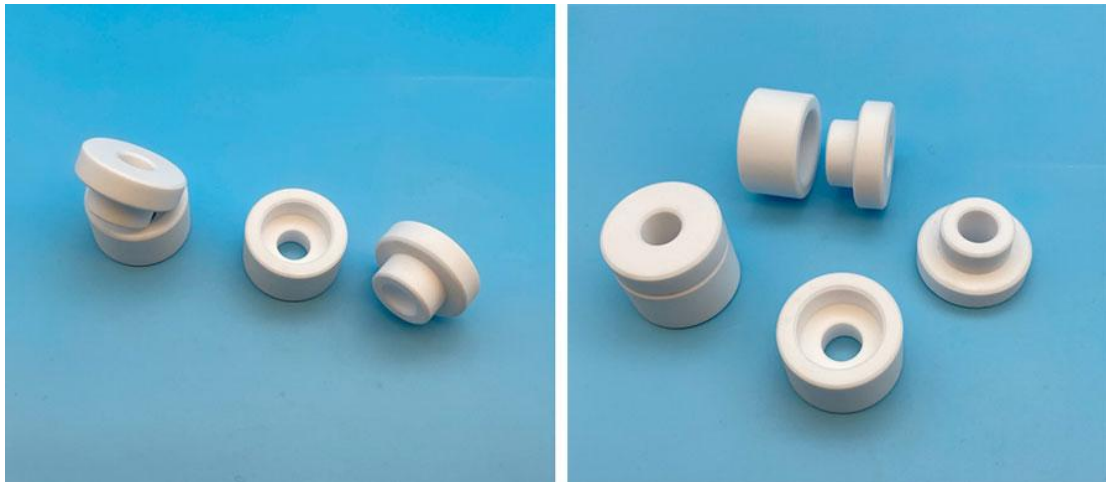


## Alumina Bushing

Nextgen Advanced Materials supplies high-quality alumina bushings in different sizes. Customized production is available.

### Product Description

You can rest assured to buy Nextgen Alumina Bushing from our factory and we will offer you the best after-sale service and timely delivery. Alumina bushing has high thermal conductivity, compressive strength, and thermal shock resistance. We provide high-quality alumina plates in a variety of sizes and dimensions to enable the most efficient production at your location.



### Ceramic characteristic table

	Name	99 Porcelain	95 Porcelain	Zirconium oxide
	Ingredients	Al <sub>2</sub> O <sub>3</sub> ≥ 99%	Al <sub>2</sub> O <sub>3</sub> ≥ 95%	ZrO <sub>2</sub> ≥ 94%
Physical characteristics	Density	3.85	3.6	5.9
	Water absorption rate %	0	0	0
	Sintering temperature °C	1690	1670	1650
Physical characteristics	Hardness HV	1700	1600	1400
	Flexural strength 4pt	> 3500	> 2900	> 11000
	Compressive strength kgf/cm <sup>2</sup>	30000	25000	25000
Thermodynamic characteristics	Maximum operating temperature: °C	1500	1400	1600
	Coefficient of thermal expansion	8	7.8	10
	10-6/°C			
	0-1000 °C			
	Heat shock force T (°C)	200	220	350
Heat conductivity W/m.k	31	22	3	
Electrical characteristics	Volume resistivity Ω.cm	> 10 <sup>12</sup>	> 10 <sup>12</sup>	> 10 <sup>12</sup>
	Insulation breaking strength KT/m	18	16	15
	Dielectric constant 1MHZ (E)	9.2-10.5	9.0-10	12.5

Specification			
Parameters	UNIT	AI 99	AI 95
Al <sub>2</sub> O <sub>3</sub> Content	%	99	95
Density	g/m <sup>3</sup>	3.85	3.6
water absorption	%	0	0
Sintering temperature	°C	1690	1670
Hardness	HV	1700	1600
Compressive strength	Kgf/cm <sup>2</sup>	30000	25000
Max. Working Temperature	°C	1500	1400
Thermal Conductivity	W/(m K)	31	22
Volume Resistivity	Ω.cm	>10 <sup>12</sup>	>10 <sup>12</sup>
Dielectric Constant	MHZ(E)	9.2-10.5	9.0-10
Customization		Available	Available