



### Zirconia Toughened Alumina Ceramic Disc

You are welcomed to come to our factory to buy the latest selling, low price, and high-quality Nextgen Zirconia Toughened Alumina Ceramic Disc. Zirconia Toughened Alumina (ZTA) Ceramic Disc shows high corrosion resistance, good chemical stability and high hardness. Nextgen Advanced Materials supplies ZTA Ceramic Discs with high quality and fast delivery, and customized

products are also available.

### Product Description

As the professional manufacture, we would like to provide you Nextgen Zirconia Toughened Alumina Ceramic Disc. Products and services are the life of an enterprise. We have always attached great importance to product quality and after-sales tracking services. Zirconia toughened alumina ceramics (ZTA), features white quality, corrosion resistance, good chemical stability. Alumina has high hardness, while zirconia has good toughness, the two materials combined form a high strength, high toughness material, which is widely used in machinery, electronics, petroleum, chemical, aerospace and textile industries. The specific ratio of the two materials can be adjusted according to the actual requirements of users.



### Specification:

Material	unit	Al <sub>2</sub> O <sub>3</sub> 95%~97%	Al <sub>2</sub> O <sub>3</sub> 99%	Al <sub>2</sub> O <sub>3</sub> 99.7%
Density	g/cm <sup>3</sup>	3.7	3.85	3.9
Flexural Strength	Mpa	300	340	390
Compressive Strength	Mpa	3400	3600	3900
Modulus of Elasticity	Gpa	350	380	390
Impact Resistance	Mpa m <sup>1/2</sup>	4.0	5	5.2

Weibull Moudulus	m	10.0	10	12
Vickers Hardness	V0.5	1800	1900	2000
Thermal Expansion Coefficent	10-6K-1	5.0-8.3	5.4-8.3	5.5-8.4
Thermal Conductivity	W/mK	24	27	28
Thermal Shork Resistance	T°C	250	270	280
Maximum Use Temperature	°C	1600	1650	1700
Volume Resistivity at 20°C	Ω	≥1014	≥1014	≥1015
Dielectric Constant	KV/mm	20	25	30
Open Porosity	%	0	0	0
Dielectric Constant	ξr	10	10	10
Dielectric Loss Angle	Tanσ	0.001	0.001	0.0005