

Zirconia Toughened Alumina Ceramic Sheet and Plate

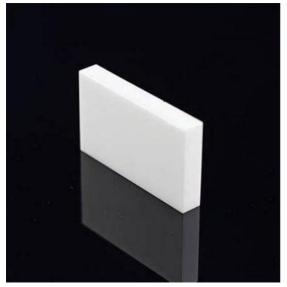
You are welcomed to come to our factory to buy the latest selling, low price, and high-quality Nextgen Zirconia Toughened Alumina Ceramic Sheet and Plate. ZTA Sheet/Plate features high strength and toughness, and wear resistance, so it has a wide range of applications. Nextgen Advanced Materials supplies ZTA Sheet/Plates

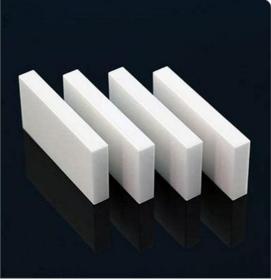
with high quality and fast delivery, and customized products are also available.

Product Description

As the professional manufacture, we would like to provide you Nextgen Zirconia Toughened Alumina Ceramic Sheet and Plate. Nextgen Advanced Materials INC prides itself in serving these markets with a focus on satisfying individual client's needs and requirements. The main advantage of Zirconia Toughened Alumina (ZTA) is the additional strength and toughness over alumina with a lower cost than zirconia (YTZP, MSZ, CSZ). The combination of aluminum oxide and 10-20% zirconium oxide provides a much higher strength, toughness, hardness and wear resistance than alumina alone.

The 20-30% increase in strength often provides the design criteria needed at a much lower cost than using zirconia.ZTA should be considered for any application where structural strength is needed that exceeds the standard alumina properties.





Specification of ZTA Sheet/Plate			
	Condition	Unit	ZTA Substrate

Tel: +86-818-9683600 E-mail: sales@nexgematerials.com



Nextgen Advanced Materials INC www.nexgematerials.com ZTA Material Al2O3/ZrO2 Color White Bulk Density g/cm³ 4 Surface Roughness Ra 0.2 μm 0.3-0.4mmt 80 Reflectivity % 90 0.8-1.0mmt Bending Strength 3-point method MPa 700 310 Modulus of Elasticity GPa Mechanical Vickers Hardness GPa 15 Fracture Toughness MPa·m1/2 3.5 IF method 40-400°C 7.1 Coefficient of Thermal Expansion 10-6/K 40-800°C 8 Thermal 25°C 27 W/(m·K) Thermal Conductivity 300°C 16 Specific Heat 25°C J/(kg · K) 720 10.2 Dielectric Constant 1MHz Dielectric Loss Factor 1MHz 10-3 0.2 Electrical Volume Resistivity 25°C Ω · cm >1014 kV/mm Breakdown Strength DC >15

Tel: +86-818-9683600 E-mail: sales@nexgematerials.com