Zirconium dioxide -ZrO2





1. Material Introduction

Pure zirconium dioxide (ZrO2) is a white solid with high melting point, high hardness, high toughness and wear resistance. It is an insulator at normal temperature, and has excellent properties such as electrical conductivity at high temperatures. Due to its good physical and chemical properties, zirconium dioxide is widely used in ceramics, refractory materials, machinery, electronics, optics and aerospace.

2. Technical Parameters

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Symbol	ZrO2
Color/Appearance	White solid
Туре	Granules · Tablets
Melting Point(°C)	2715°C
Refractive Index	2.05 at 500nm
Purity	99.9-99.99%
Density	5.89g/cm ³
Evaporation Source	E-beam
Application	Antireflection(AR) · Multilayer films ·
	Nano hardening

3. Field Application

Application Area	Application Component
Optical glass multilayer film	Glasses lens
Piezoelectric ceramics, precision ceramic	Sintered gaskets, molds, artificial joints, dentures
refractory	Refractory brick
Electrostatic paint and baking varnish	

