

Magnesia Stabilized Zirconia

Performance parameters of magnesium stabilized zirconia (MSZ)

Mechanical performance	Unit	Magnesia Stabilized Zirconia
Density	g/cm ³	5.7
Vickers hardness	HV	1100
Flexural strength	MPa	500
Compressive strength	MPa	2500
Fracture toughness	MPa·m ^{1/2}	6~7
Elastic modulus	GPa	250
Poisson's ratio	—	0.21
Young's modulus	GPa	220

Thermal performance	Unit	Magnesia Stabilized Zirconia
Thermal conductivity	W/ (m · K)	3
Maximum operating temperature	°C	2100
Specific heat	J/(kg · K)	0.45
Heat shock resistance temperature (water-cooled)	ΔT°C	350
Linear expansion coefficient	10 ⁻⁶ /°C	10.5

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Electrical characteristics	Unit	Magnesia Stabilized Zirconia
Dielectric constant	1MHz	28
Dielectric strength	V/m	13×10 ⁵
Dielectric loss angle, 20 ° C	tanδ	0.0017
Volume resistivity @ 25 ° C	Ω · cm	>10 ¹⁴

Note: This value is for reference only and may vary slightly depending on the batch conditions.

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