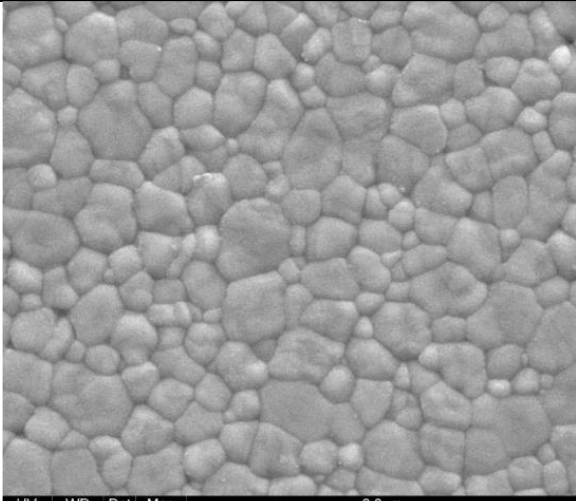


C808 – Zirconia Build Dispersion

Physical Properties		Standard
Density	> 99.5% > 6.02 g/cm ³	ISO 18754
Purity	> 99.5%	
Mechanical Properties		
Hardness	> 1260 HV	ASTM C1327
Shrinkage	Linear 17.8±1% per axis (isotropic)	
Young's Modulus of Elasticity	215 GPa	ASTM E494-20
Fracture Toughness	4.5 MPa·m ^{1/2}	
Poisson's Ratio	0.31	ASTM C818
Microstructure as Sintered		
		
<small>HV 10.0 kV WD 9.8 mm Det ETD Mag 50000x</small>		<small>2.0 μm WAMRC-TAU</small>
Thermal Properties		Standard
Thermal Conductivity	3 W/ (m·K)	ASTM C408
Coefficient of Linear Thermal Expansion	10 (40-400°C) ppm/°C E-6 11 (40-800°C) ppm/°C E-6	ASTM C372
Specific Heat Capacity	0.46 J/(Kg·K)	ASTM C351
Thermal Shock Resistance (Temperature Difference)	150 °C	
Electrical Properties		
Volume Resistivity	20°C - 1.5E+12 Ω·cm 300°C - 8.3E+06 Ω·cm 500°C - 8.8E+06 Ω·cm	ASTM D257
Dielectric Strength	11 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	34	ASTM D150
Dissipation Factor	0.0096 (1KHz)	ASTM D150

Others	
MSDS Availability	EU, US, RU
Certifications	ISO 9001, ISO 13485
Cartridge Weight	3Kg
Storage Conditions	15-35°C, < 50% relative humidity, non-condensing
Suitable Protection	As per instructions on the cartridge
Risk Phrases	P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. H319 Causes serious eye irritation
First Aid	As per instructions on the cartridge
Shelf Life	1 year at room temperature

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