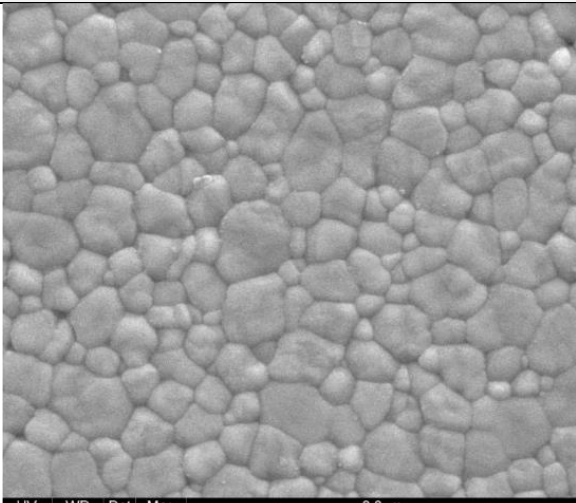


C808 – Zirconia Build Dispersion

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		
		
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
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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