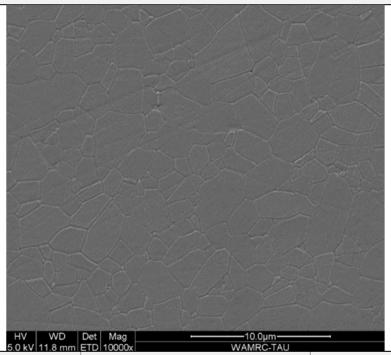


C700 - Alumina Build Dispersion

Physical Properties		Standard
Density	> 99.5% > 3.93 g/cm³	ISO 18754
Purity	> 99.99%	
Mechanical Properties		
Hardness	> 1600 HV	ASTM C1327
Shrinkage	Linear 14.5±1% per axis (isotropic)	
Young's Modulus of Elasticity	387 GPa	ASTM E494-20
Fracture Toughness	3.4 MPa· $m^{1/2}$	
Poisson's Ratio	0.23	ASTM C818

Microstructure as Sintered



Thermal Properties	MIII ZID 10000XI WAIVING FAC	Standard
Thermal Conductivity	32 J/(sec x m x K) @30°C	ASTM D5470
Coefficient of Liner Thermal Expansion	7.1 (40-400°C) ppm/°C E-6 8.0 (40-800°C) ppm/°C E-6	ASTM C372
Specific Heat Capacity	0.78 J/(Kg·K)	
Thermal Shock Resistance (Temperature Difference)	150 °C	
Electrical Properties		
Volume Resistivity	20°C - 1.0E+15 Ω ·cm 300°C - 2.5E+13 Ω ·cm 500°C - 5.8E+10 Ω ·cm	ASTM D257
Dielectric Strength	17 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	9.9	ASTM D150
Dissipation Factor	< 0.0001 (1KHz)	ASTM D150



Others		
MSDS Availability	EU, US, RU	
Cartridge Weight	2.4 Kg	
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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