



Advanced Ceramic Technologies

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AP35 99% ALUMINA

TYPE C799 TO IEC 60672

Composition

Alumina	Al ₂ O ₃	99.0%
Silica	SiO ₂	0.7%
Magnesia	MgO	0.07%
Iron Oxide	Fe ₂ O ₃	0.07%
Sodium Oxide	Na ₂ O	0.05%
Calcia	CaO	0.03%

Physical Properties

Bulk Density	Open Porosity	Flexural Strength		Compressive Strength
		20°C	1000°C	20°C
3.83 g/cm ³	0%	345 Mpa	145 Mpa	2550 Mpa
239 lbs/ft ³	0%	50 ksi	30 ksi	370 ksi

Thermal Properties

Conductivity		Expansion Coefficient	Max Use Temperature (no load)
20°C	800°C		
29 W/m ^{°K}	7.2 W/m ^{°K}	8.4 x 10 ⁻⁶ /C°	1700°C
201 BTU.in/ft ² .hr°F	50 BTU.in/ft ² .hr°F	4.7 x 10 ⁻⁶ /F°	3092°F

These values represent typical properties of standard materials.

Values should be used only for comparison and should not be used as a warranty.