



ALUCHEM

General Characteristics

Chemical Formula	Al ₂ O ₃
Specific Gravity	3.9
Melting Temperature	2040° C
Refractive Index	1.76
Mohs' Hardness	9
Appearance	White Crystalline Powder

Thermally Reactive Alumina

Typical Chemical Composition

Properties	AC15RG	AC16RG	AC16AM	AC17RG	AC19RG
Al ₂ O ₃ , %	99.3+	99.3+	99.3+	99.3+	99.3+
SiO ₂ , %	0.03	0.03	0.03	0.03	0.03
Fe ₂ O ₃ , %	0.02	0.02	0.02	0.02	0.02
Na ₂ O, %	0.35	0.3	0.3	0.4	0.45

Typical Physical Properties

Surface Area, m ² /g	6 - 8	13 - 16	12 - 15	3 - 5	1.5 - 3
Screen Analysis, % through 325 Mesh	99-100	99-100	99-100	99-100	99-100
Median Particle Size by Microtrac, μm	2 - 4	1 - 3	2 - 3	3 - 4	3 - 4

Typical Ceramic Properties

*Green Density, gm/cm ³	2.4-2.6	1.8-2.0	1.3-1.6	2.2-2.5	1.4-2.6
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*Based on one inch diameter pellets pressed at 5000 psi.

