



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

Polishing Grade Alumina

Typical Chemical Composition

Properties	AC-66	AC-5	AC-662 -325	AC-300 -325	AC-300 -325SG
Al ₂ O ₃ , %	99.5	99.5	99.5	99.4	99.4
SiO ₂ , %	0.01	0.01	0.01	0.02	0.02
Fe ₂ O ₃ , %	0.01	0.01	0.01	0.01	0.01
Na ₂ O, %	0.38	0.38	0.38	0.2	0.2
*L.O.I., %	0.14	0.14	0.14	0.3	0.3

* 300-1200° C

Typical Physical Properties

Ultimate Crystal Size, μm	4 - 6	4 - 6	4 - 6	< 1	< 1
Surface Area, m ² /g	0.3 - 0.5	0.5 - 0.7	0.8	9 - 13	9 - 13
Oil Absorption	55 - 65	36 - 40	20 - 30	40 - 50	40 - 50
Specific Gravity	3.9	3.9	3.9	3.9	3.9
Bulk Density, Loose, lb/ft ³	55	66	58	24	24
Bulk Density Packed, lb/ft ³	68	74	70	30	30

Typical Tyler Standard Sieve Analysis

% on 100 mesh	1 - 10	trace	0	0	0
% on 200 mesh	60 - 90	25 - 30	0 - 1	1.5	< 1
% on 325 mesh	92 - 98	40 - 45	2 - 5	4	3
% pass 325 mesh	2 - 8	55 - 60	95 - 98	96	97

Median Particle Size by Microtrac, μm	-	-	5	3	2
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