



AC12 ULS

Ultra-Low Soda Calcined Alumina

Typical Chemical Composition

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

Properties	AC12 ULS
Al ₂ O ₃ , %	99.9
SiO ₂ , %	0.03
Fe ₂ O ₃ , %	0.02
Na ₂ O, %	0.05 max.
CaO, %	0.03
B ₂ O ₃ , %	0.000
L.O.I., %, 1100 °C	0.4 max.

Typical Physical Properties

AluChem's Ultra-Low Soda (ULS) Calcined Alumina is manufactured from selected Bayer Process feeds. Total Soda (Na₂O) concentration is reduced prior to calcination utilizing a proprietary process which insures no addition of trace oxides. Our tightly controlled rotary calcining process delivers consistent alumina crystal size and morphology.

** Milled ULS Calcined Aluminas are available based upon customer and industry specific specifications. AluChem's milled products are produced through dry-milling in ceramic lined ball mills with high-alumina ceramic media.

Surface Area, m ² /g	1
Screen Analysis, % retained on 100 Mesh	0 - 10
Screen Analysis, % passing 325 Mesh	2 - 20

*Third-party certifications against OEM Specifications can be provided by a NADCAP accredited laboratory upon request.

