

ACW - CALCINED ALUMINUM OXIDE POWDER

High Purity Aluminum Oxide (Alumina) Powder

ACW is a high purity (>99%) alumina powder. Each particle is a discrete crystal of alumina, with a smooth surface distinctive platelet shape with a 5.1 aspect ratio. Each ACW particle has high strength and high resistance to fracture. ACW is ideal for surface finishing products such as precision optics, piezo-electronics, bearings, semi-conductor materials, quartz, Germanium, stainless and hardened steels, metals, and many others.

General Characteristics

True Specific Gravity	Melting Point	Particle Shape	Color
3.95 g/cm ³	2,020 °C	Disc-like	White

Typical Chemical Analysis by XRF (%)

Al ₂ O ₃	SiO ₂	Na ₂ O	CaO	Fe ₂ O ₃
99.2	0.03	0.60	0.05	0.02

Grit Sizes

Size	94%	50%	3% Max
ACW IR	0.21	1.77 - 2.25	6.23
ACW 2R	-	2.09 - 2.77	-
ACW 3R	0.25	2.97 - 3.85	9.52
ACW 5R	0.54	3.72 - 4.74	11.40
ACW 9R	1.50	5.60 - 6.85	13.60
ACW 12R	2.45	7.05 - 8.50	17.60
ACW 15R	3.96	9.06 - 11.13	21.36
ACW 20R	4.76	12.40 - 14.66	30.11
ACW 25R	7.37	16.92 - 20.60	41.00
ACW 30R	10.30	23.67 - 27.45	52.77
ACW 40R	13.65	31.70 - 37.60	62.30
ACW 50R	16.12	42.81 - 52.50	102.00

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