



## ACW - CALCINED ALUMINUM OXIDE POWDER

### HIGH PURITY ALUMINUM OXIDE (ALUMINA) POWDER

#### **ABOUT:**

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.

#### **APPLICATIONS:**

ACW is ideal for surface finishing products such as precision optics, piezo-electronics, bearings, semi-conductor materials, quartz, Germanium, stainless and hardened steels, ferrous & non-ferrous metals, and many others.

#### **TYPICAL CHEMICAL ANALYSIS**

Al <sub>2</sub> O <sub>3</sub>	99.20%
SiO <sub>2</sub>	0.03%
Na <sub>2</sub> O	0.60%
CaO	0.05%
Fe <sub>2</sub> O <sub>3</sub>	0.02%

#### **TYPICAL PHYSICAL PROPERTIES**

Specific Gravity:	3.95
Hardness:	Knoop: 1800-2200 / Mohs: 9
Melting Point:	2020°C
pH:	7.5 - 11
L.O.I.:	< 0.35
Particle Shape:	Disc-like
Color:	White

#### **SIZE SPECIFICATIONS** (Sympa Tec HELOS/KF)

Size	94%	50%	3% Max	Size	94%	50%	3% Max
ACW 1R	0.21	1.77 - 2.25	6.23	ACW 15R	3.96	9.06 - 11.13	21.36
ACW 2R	-	2.09 - 2.77	-	ACW 20R	4.76	12.40 - 14.66	30.11
ACW 3R	0.25	2.97 - 3.85	9.52	ACW 25R	7.37	16.92 - 20.60	41.00
ACW 5R	0.54	3.72 - 4.74	11.40	ACW 30R	10.30	23.67 - 27.45	52.77
ACW 9R	1.50	5.60 - 6.85	13.60	ACW 40R	13.65	31.70 - 37.60	62.30
ACW 12R	2.45	7.05 - 8.50	17.60	ACW 50R	16.12	42.81 - 52.50	102.00

The information contained in this data sheet has been determined through the application of accepted engineering practice and is believed to be reliable. Since the conditions of application and use of our products are beyond our control, no warranty is expressed or implied regarding accuracy of the information, the results to be obtained from use of the product, or that such use will not infringe on any patent. This information is furnished with the express condition that you will make your own tests to determine the suitability of the product for your particular use.



701 Willet Road, Buffalo, NY 14218  
 Phone: 716-822-2500  
[info@electroabrasives.com](mailto:info@electroabrasives.com)  
[www.electroabrasives.com](http://www.electroabrasives.com)



600 Steel Street, Aliquippa, PA 15001  
 Phone: 800-927-8823  
[www.usminerals.com](http://www.usminerals.com)



GRUPO CURIMBABA

Updated: 07/13