



# PRODUCT SPECIFICATIONS

## AGM PN: 920101

ACTIVATED ALUMINA, 1/8", 3/16", 1/4" BEADED

**Chemical Formula:**  $\text{Al}_2\text{O}_3 \cdot n\text{H}_2\text{O}$

### Product Description:

Activated alumina is a synthetically produced aluminum oxide in a smooth spherical form with a high crush strength. It is highly porous and can have a surface area greater than 300 m<sup>2</sup>/g. It is an excellent desiccant for liquids and gases and can achieve dew points from -40°F to 100°F depending on the operating conditions and the design of the dryer. Activated alumina will adsorb all molecules to some degree but will preferentially adsorb the molecules with the highest polarity.

### TYPICAL CHEMICAL COMPOSITION (Wt %)

$\text{Al}_2\text{O}_3$	92.7%
$\text{SiO}_2$	0.02%
$\text{Fe}_2\text{O}_3$	0.02%
$\text{Na}_2\text{O}$	0.30%

### TYPICAL PROPERTIES

	1/16" (1.5-2mm)	1/8" (3.2mm)	3/16" (4.7 mm)	1/4" (6.4 mm)
Surface Area, m <sup>2</sup> /g	> 300	> 300	> 300	> 300
Total Pore Volume, cc/g	0.5	0.5	0.5	0.5
Bulk Density, lbs/ft <sup>3</sup> (kg/m <sup>3</sup> )	≥ 43 (690)	≥ 47 (753)	≥ 47 (753)	≥ 47 (753)
Crush Strength, lbs (N)	≥ 19 (87)	≥ 27 (120)	≥ 42 (180)	≥ 67 (300)
LOI (250-1100°C), Wt %	< 7	< 7	< 7	< 7
Abrasion Loss, Wt %	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5

### Typical Applications

As a desiccant in compressed air dryers; water purification to remove fluoride, arsenic and selenium; removal of degradation acids from transformer oils, lubricating oils, and refrigerants; natural gas drying; liquefied natural gas drying.

### Handling and Storage Recommendations

Store activated alumina in a dry location to prevent premature water adsorption. Reseal packages after opening to prevent contamination and unintended water adsorption. We recommend that you rotate stock so oldest material is used first.

### Packaging Information

Bags	23 kg
Drums	Fill weights to order specification
Super Sacks	Fill weights to order specification

Health and Safety Information is available on the product SDS.