



## ADSORBENTS

# UOP™ D-201 ACTIVATED ALUMINA

### DESCRIPTION

D-201 is a spherical activated alumina with high surface area, high adsorption capacity, and optimal abrasion resistance.

### APPLICATIONS

D-201 activated alumina is specifically designed as a high-capacity, abrasion-resistant desiccant. Its excellent adsorption and desorption characteristics make it especially suitable for heatless (pressure swing) adsorption applications, such as dehydration and cryogenic air purification.

### GRADES

1/4"	(6.4 mm)	(1/4 inch nominal)
3x6 mesh	(6.7 mm x 3.3 mm)	(3/16 inch nominal)
5x8 mesh	(4.0 mm x 2.4 mm)	(1/8 inch nominal)
7x12 mesh	(2.8 mm x 1.4 mm)	(1/16 inch nominal)

### TYPICAL CHEMICAL ANALYSIS

Al <sub>2</sub> O <sub>3</sub> (wt-%)	94.6
SiO <sub>2</sub> (wt-%)	0.02
Fe <sub>2</sub> O <sub>3</sub> (wt-%)	0.02
Na <sub>2</sub> O (wt-%)	0.35
Loss on ignition (wt-%)	5.0

### TYPICAL PHYSICAL PROPERTIES

#### 5x8 Beads

Surface area (m <sup>2</sup> /gm)	350
Bulk density (lb/ft <sup>3</sup> )	47 (753 kg/m <sup>3</sup> )
Crush strength <sup>(1)</sup> (lb <sub>f</sub> )	35 (15.8 kg <sub>f</sub> )
Abrasion loss (wt-%)	0.2

<sup>(1)</sup> Crush strength varies with the sphere diameter. The crush strength reported is for a 5 mesh (4.0 mm) sphere.

### REGENERATION

D-201 activated alumina can be regenerated for re-use by purging or evacuating at elevated temperatures.

### SHIPPING INFORMATION

D-201 activated alumina is available in 50-lb multiwall moisture-proof bags, 55-gallon steel drums, and quick load bags.

### FOR MORE INFORMATION

For more information, contact your UOP representative or UOP's Adsorbents business at:

Telephone:	1-440-734-0086
Fax:	1-440-734-1688
E-mail:	Adsorbents@uop.com

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UOP LLC  
25 East Algonquin Road  
Des Plaines, IL 60017-5017  
www.uop.com