



phone: (866) 564-8237  
fax: (678) 247-2797  
e-mail: [hubermaterials@huber.com](mailto:hubermaterials@huber.com)

[www.hubermaterials.com](http://www.hubermaterials.com)

## Onyx Elite® 103 ALUMINUM HYDROXIDE (ATH)

### DESCRIPTION

Onyx Elite® 103 is a high purity, organic free alumina trihydrate specifically designed to provide translucency, depth of pattern and soft white color polymer products. OE 103 is a high brightness alumina trihydrate featuring a unique particle size distribution which yields low resin demand and excellent air release properties.

### TYPICAL CHEMICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	0.008
Fe <sub>2</sub> O <sub>3</sub> , %	0.004
Na <sub>2</sub> O (total), %	0.2
Na <sub>2</sub> O (soluble), %	0.02
Loss on ignition (1000°C), %	34.6
Free Moisture (105°C), %	0.10

### TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 200 mesh	56
% on 325 mesh	80
% through 325 mesh	22
% less than 10 microns	11
Median Particle Diameter, microns	85
Surface Area (m <sup>2</sup> /gm)*	0.32
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density – loose (gm/cm <sup>3</sup> )	1.16
Bulk Density – packed (gm/cm <sup>3</sup> )	1.5
Color-L*	86

\* As measured with a Quantachrome monosorb surface area analyzer (BET)

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