



## Micral® AM550

# Aluminum Hydroxide

### DESCRIPTION

Micral® AM550 is an ATH ultra fine product designed for thermoplastics, thermoset composites, latex coatings and rubber applications requiring a fine particle size coupled with a narrow particle size distribution. The narrow particle size distribution imparts a low surface area to Micral AM550 which can be important for formulation stability. Micral AM550 provides an economical approach to flame retardant and smoke suppression in applications such as urethane foam, unsaturated polyester resin, PVC, SBR belting, EPDM, EPR, adhesives, coatings, ABS, polyolefins and XLPE.

A complete range of surface modifications is available to aid processing and enhance physical properties. These include silanes, stearates, and wetting agents. Technical service is available.

### TYPICAL CHEMICAL ANALYSIS

Al(OH) <sub>3</sub> , %	99.6
SiO <sub>2</sub> , %	0.005
Fe <sub>2</sub> O <sub>3</sub> , %	0.007
Na <sub>2</sub> O (total), %	0.3
Na <sub>2</sub> O (soluble), %	0.04
Loss on ignition (550° C), %	34.6
Free Moisture (105°C), %	0.25

### TYPICAL PHYSICAL PROPERTIES

Screen Analysis	
% on 325 mesh	0.01
% through 325 mesh	99.99
% less than 10 microns	87.0
% less than 1 micron	5.5
Median Particle Diameter, microns	5.5
Surface Area (m <sup>2</sup> /gm)*	3.4
Specific Gravity (gm/cm <sup>3</sup> )	2.42
Bulk Density - loose (gm/cm <sup>3</sup> )	0.45
Bulk Density - packed (gm/cm <sup>3</sup> )	0.8
Oil Absorption**	32
TAPPI Brightness***	95

\* As measured with a Quantachrome monosorb surface area analyzer (BET)  
\*\* Oil absorption, ml, boiled linseed oil per 100 gm filler  
\*\*\* TAPPI Brightness measured with a Hunterlab Colorimeter