



# Bayer Grade Alumina Trihydrate

## General Characteristics

|                     |   |
|---------------------|---|
| Chemical Formula    | Al <sub>2</sub> O <sub>3</sub> · 3H <sub>2</sub> O or Al(OH) <sub>3</sub> |
| Specific Gravity    | 2.42  |
| Decomposition Temp. | 428°F (220°C)   |
| Refractive Index    | 1.57  |
| Mohs' Hardness      | 2.5 - 3.5   |
| Appearance          | Crystalline Powder  |
| Color               | off-white / tan   |

## Typical Chemical Compositions

|  |          |
|--|----------|
| Al <sub>2</sub> O <sub>3</sub> · 3H <sub>2</sub> O | 99.5%    |
| L.O.I (1000°C)                                     | 34.5%    |
| SiO <sub>2</sub>                                   | 0.01%    |
| Fe <sub>2</sub> O <sub>3</sub>                     | 0.006%   |
| Na <sub>2</sub> O (total)                          | 0.30%    |
| Free moisture                                      | 0.3% max |

# A212

## Typical Physical Properties

**Bulk Density, Loose, lbs/ft<sup>3</sup>** 58

**Bulk Density, Packed, lbs/ft<sup>3</sup>** 68

**Oil Absorption** 24

### +Screen Analysis

**% on 100 mesh** 0

**% on 200 mesh** 6

**% on 325 mesh** 17

**\*Median Particle Size, Microns** 12

+Wet screen analysis using US Standard stainless steel screens

\*Sedigraph using micrometrics model 5120

R.J. Marshall offers one of the most complete lines of Bayer Alumina Trihydrate available in the market today. By combining our technical capabilities and our multiple processing locations, R.J. Marshall is able to consistently control particle size distributions while offering a wide range of Alumina Trihydrate products.

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