Product Information

Almatis BayGranite® 17 ATH (aluminum trihydroxide) is an inorganic hydrated alumina designed for use in polymer systems as a flame retardant and smoke suppressive additive. BayGranite® 17 is more accurately designated chemically as aluminum trihydroxide, Al(OH)₃, and is produced through processing of alumina-bearing feedstocks. Although BayGranite® 17 is a dry powder, when heated above approximately 220°C it decomposes into approximately 35% water and 65% alumina by weight. BayGranite® 17 is a nonabrasive, low density material with a Mohs hardness index of 2.5 - 3.5 and a specific gravity of 2.42. Almatis BayGranite® 17 ATH is compatible with polymer systems, and is designed for applications that require low-soda ATH products.

BayGranite® 17 a non-halogenated fire retardant and smoke suppressant. It decomposes into an inert material: anhydrous alumina and water. Its presence in a polymer system can substantially lower smoke production levels when compared to flame retardant polymers based on phosphates or on brominated or chlorinated paraffin/antimony trioxide filled systems.

Global Product Data

<table>
<thead>
<tr>
<th>Product</th>
<th>BayGranite® 17</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Average</td>
</tr>
<tr>
<td>Chemical</td>
<td></td>
</tr>
<tr>
<td>Composition (%)</td>
<td></td>
</tr>
<tr>
<td>SiO₂</td>
<td>0.01</td>
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<tr>
<td>Fe₂O₃</td>
<td>0.01</td>
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<tr>
<td>Na₂O (total)</td>
<td>0.2</td>
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<tr>
<td>Na₂O (soluble)</td>
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<tr>
<td>Moisture</td>
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<tr>
<td>Physical</td>
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<tr>
<td>Properties</td>
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</tr>
<tr>
<td>Loose bulk</td>
<td>60-70</td>
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<tr>
<td>density (lb/ft³)</td>
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<tr>
<td>Specific</td>
<td>2.42</td>
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<tr>
<td>gravity</td>
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<tr>
<td>Mohs hardness</td>
<td>2.5-3.5</td>
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<tr>
<td>Particle Size</td>
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<tr>
<td>wt. % through</td>
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<td>325 mesh</td>
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<tr>
<td>d50 (µ)</td>
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</table>

(1) Almatis general shipping specifications

All data are based upon Almatis standard test methods, and all test methods are available upon request. Unless stated otherwise values are typical.

Think alumina, think Almatis.
Almatis BayGranite® 17

Applications
Primary applications are in the film forming binders based on polymers and copolymers.

- Ethylene vinyl acetate (EVA)
- Natural latex
- Polyurethane
- Polyvinyl acetate (PVA)
- Polyvinyl chloride (PVC)
- Styrene-butadiene rubber (SBR)
- Vinylidene Chloride

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