NYACOL® Colloidal Alumina
High Temperature Coating / Binder

NYACOL® AL20, AL20DW

NYACOL AL20 is designed specifically for use as a binder for high-temperature refractories and ceramics, providing a good balance of particle size, concentration and pH to enhance the binding characteristics while optimizing the economics of the binder system. NYACOL AL20 is an effective high-temperature binder where colloidal silica binders fail.

AL20DW, a custom order product, is made with deionized water to reduce the sodium and chlorine levels to less than 10 ppm.

NYACOL AL20 and AL20DW are pseudo-Boehmite and have the chemical composition corresponding to \((\text{AlO(OH)})\) or \(\text{Al}_2\text{O}_3\cdot\text{H}_2\text{O}\).

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th></th>
<th>AL20</th>
<th>AL20DW</th>
</tr>
</thead>
<tbody>
<tr>
<td>((\text{AlO(OH)})), wt%</td>
<td>23.5</td>
<td>23.5</td>
</tr>
<tr>
<td>Aluminum content expressed as (\text{Al}_2\text{O}_3), wt%</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Particle Size, Z-Average, nm</td>
<td>60 – 90</td>
<td>60 – 90</td>
</tr>
<tr>
<td>Particle Charge</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>pH</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.19</td>
<td>1.19</td>
</tr>
<tr>
<td>Viscosity, cP</td>
<td>4 – 11</td>
<td>4 – 11</td>
</tr>
</tbody>
</table>

**PACKAGING**

NYACOL AL20 is available in 55-gallon plastic drums or stainless steel tank trucks. Customized packaging is available.

**STORAGE**

NYACOL AL20 should not be subjected to temperatures of 32°F or below to avoid freezing.

**SAFETY**

NYACOL AL20 is acidic and may cause eye and skin irritation. Users should observe precautions printed on the package label. A Material Safety Data Sheet for this product will be supplied on request.

**FOR ADDITIONAL INFORMATION OR TO PLACE AN ORDER**

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Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, user should determine the suitability of the product for the intended use and user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without a license.

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