Nyacol zirconia products are designed for use as a high-temperature refractory, and as a ceramic binder with or without yttria as a stabilizer.

**TYPICAL PROPERTIES**

<table>
<thead>
<tr>
<th></th>
<th>ZR02(AC) ACETATE-STABILIZED</th>
<th>ZR50/14 pH 3</th>
<th>ZR100/20</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZrO₂, weight %</td>
<td>20</td>
<td>14</td>
<td>20</td>
</tr>
<tr>
<td>Particle Size, nm</td>
<td>5 – 20</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>Particle Charge:</td>
<td>Positive</td>
<td>Positive</td>
<td>Positive</td>
</tr>
<tr>
<td>pH</td>
<td>3.5</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.26</td>
<td>1.16</td>
<td>1.22</td>
</tr>
<tr>
<td>Viscosity, cP</td>
<td>10</td>
<td>~20</td>
<td>~20</td>
</tr>
<tr>
<td>ZrO₂/Counter Ion, mol/mol</td>
<td>1.5 Acetate</td>
<td>0.3 Nitrate</td>
<td>0.3 Nitrate</td>
</tr>
</tbody>
</table>

**PACKAGING**

Nyacol zirconia is available in 55-gallon drums (550 pounds net) and 5-gallon pails (50 pounds net). Packaging in smaller containers, or containers of alternate materials, is available upon request.

**STORAGE**

Nyacol zirconia should not be subjected to temperatures of 0°C (32°F) or below to avoid freezing. If the product freezes, warm slowly and stir well before use.

**SAFETY**

Nyacol zirconia is acidic and may cause eye and skin irritation. Users should observe precautions printed on the package label. A Safety Data Sheet (SDS) for this product will be supplied on request.

**TO ORDER MATERIAL OR FOR INFORMATION**

Nyacol Nano Technologies, Inc.
Megunko Road
P.O. Box 349
Ashland, MA 01721-0349 U.S.A.

Telephone: 508-881-2220  Local Area
Fax: 508-881-1855

Internet: www.nyacol.com

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. 2017/06

NYACOL is a trademark of Nyacol Nano Technologies, Inc.
P.O. Box 349, Ashland, MA 01721-0349 USA  Tel.: 508-881-2220