Product Information

**Product Description**
Ti-Pure™ R-942P titanium dioxide slurry is designed and manufactured for use in the paper industry. It is a high opacity white pigment for coatings or wet end applications. It is an aqueous slurry with the following general properties.

**Table 1.**
Typical Properties of Ti-Pure™ R-942P

<table>
<thead>
<tr>
<th>Slurry Property</th>
<th>Units</th>
<th>Typical Property</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solids</td>
<td>%</td>
<td>76.5</td>
</tr>
<tr>
<td>Grit, % retained on 325 mesh</td>
<td>%</td>
<td>0.0002</td>
</tr>
<tr>
<td>pH</td>
<td></td>
<td>9.0</td>
</tr>
<tr>
<td>Rheology, Hercules at 500 RPM</td>
<td>cps</td>
<td>32.5</td>
</tr>
<tr>
<td>Brookfield Viscosity, #3 spindle, 100 RPM</td>
<td>cps</td>
<td>195</td>
</tr>
<tr>
<td>Horiba PS Median, D50</td>
<td>μm</td>
<td>0.390</td>
</tr>
<tr>
<td>Horiba PS Geometric Standard Deviation, GSD</td>
<td></td>
<td>1.53</td>
</tr>
<tr>
<td>Slurry density @25 degrees C</td>
<td>lb/gal</td>
<td>19.4</td>
</tr>
<tr>
<td>TAPPI Brightness</td>
<td></td>
<td>98.0</td>
</tr>
</tbody>
</table>

Note: All values are typical unless otherwise specified.

**Key Features**
- High Opacity/Hiding Power
- Excellent Brightness
- Superior Pigment Dispersion
- Stable Slurry
- Good Compatibility

**Opacity/Hiding Power**
R-942P provides excellent opacifying performance due to highly efficient light scattering. The higher the TiO₂ light scattering, the less TiO₂ that is needed to achieve an opacity target. The high refractive index of the rutile TiO₂ crystal and optimized particle size provide an inherent light scattering advantage in paper coating and wet end applications.

**Brightness**
R-942P TiO₂ is produced by chloride process technology and has extremely high inherent brightness. High brightness combined with superior light scattering provides excellent brightness and whiteness to paper and paperboard products.

**Pigment Dispersion**
Proper dispersion of the TiO₂ particles is the key to achieving optimum optical performance. Flocculated or agglomerated TiO₂ particles significantly reduce light scattering performance and require the use of more TiO₂ to achieve a desired opacity. The TiO₂ particles in Ti-Pure™ R-942P TiO₂ are extremely well dispersed as indicated by excellent viscosity under both low and high shear and narrow particle size distribution for a highly-loaded slurry.

**Stable Slurry**
It is resistant to bacterial growth, does not gel, and settles very slowly.

**Regulatory Status**
Ti-Pure™ R-942P titanium dioxide pigment is acceptable for many indirect food use applications. Please contact your Chemours representative for regulatory compliance statements for your country and application.
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