# **Wayncor® 205** – Corrosion Inhibitive Pigment.

**Description** – Calcium Modified Silica

Wayncor® 205 is an anti corrosion pigment that utilizes a calcium ion exchange mechanism to inhibit the corrosion process. Its near neutral pH allows it to be used in a wide variety of formulas without a negative impact on paint stability. The fine Hegman grind (6.5 minimum) permits its use in thin film applications (4 – 10 microns) such as coil coatings and in more traditional industrial applications where the dry film thickness is higher. This fine Hegman value also allows the product to be high speed dispersed. The Wayncor® 205 mechanism works well on both ferrous and non-ferrous substrates. Wayncor® 205 can be used as the sole corrosion inhibitor or synergistically with other inhibitive technologies.

| Characteristic | Test Method | Typical Value |
|---|---|---|
| Appearance | | White powder |
| Ca as CaO [%] | | 14 - 19 |
| Silicate as $SiO_2$ [%] | | 70 - 75 |
| Specific Gravity [$g/cm^3$] | ASTM D-153 | 2.44 |
| Bulking Value [gal/lb]<br>[l/kg] | | 0.049<br>0.409 |
| pH | ASTM D-1208 | 7.0 - 9.0 |
| Loss on Ignition 600ºC [%] | | < 9.0 |
| Oil Absorption [lbs/100 lbs]<br>[kg/100kg] | ASTM D-281 | 60 Max.<br>60 Max. |
| Apparent Bulk Density, Tapped [$g/100\ cm^3$] | ASTM D-4164 | 30 - 55 |
| Fineness of Grind [Hegman Value] | ASTM D-1210 | 6.0 Min. |
| Mean Particle Size [microns] | Malvern Mastersizer | 5.0 |
| Lead as Pb [ppm] | by Atomic Absorption | < 6.0 |
| Cadmium as Cd [ppm] | by Atomic Absorption | < 1.0 |
| Chromium as Cr [ppm] | by Atomic Absorption | < 0.50 |

These are typical values and do not represent specifications.

| Suggested Applications |
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| Solvent based polyesters |
| Solvent and water based polyurethanes |
| Solvent and water based epoxies |
| Acrylics |
| Solvent Based Alkyds |
| Water Reducible Alkyds |
| Siloxanes |
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Performance in other systems has not been fully evaluated.

The information made herein is based upon our research and the research of others, and is believed to be accurate. No guarantee of accuracy is made and the product discussed is sold without warrant, expressed or implied and upon the condition the purchaser shall make their own tests to determine the suitability of such product for their particular purposes.

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