

Ti-Pure™ Grade Selection Guide for Coatings

| Applications | R-706 | R-900 | R-902+ | R-960 | TS-6200 | TS-6300 | TS-6700 |
|--|-------|-------|--------|-------|---------|---------|---------|
| Industrial | | | | | | | |
| Vehicles - OEM/Refinish, Top Coats | ◆ | | | ● | ◆ | | |
| Functional Exterior - Marine, Protective, Aerospace Coatings | ● | | | ◆ | ◆ | | |
| Industrial Building | ◆ | | ● | ● | ◆ | | |
| Aesthetic Interior | ◆ | ◆ | ● | | | | |
| Packaging, Can Coating | ● | ◆ | | | | | |
| Industrial Primers | ● | ◆ | ◆ | ● | | | |
| Wood Coatings | ◆ | ● | ◆ | | ● | | |
| Inks | ● | ◆ | ● | ● | ◆ | ◆ | |
| Coil Coating | ◆ | | | ● | ◆ | | |
| Powder Coating | ◆ | | ● | ● | ◆ | | |
| E-Coat | | ◆ | | ● | | | |
| Architectural | | | | | | | |
| Interior Wall (All Finishes) | ◆ | ● | ◆ | | | ● | ◆ |
| Interior Wall (Matt/Flat) | ◆ | | ● | | | ◆ | ◆ |
| Premium Exterior Wall/Surfaces | ◆ | | ● | ● | ◆ | | ◆ |
| Interior Wood Trim/Doors | ◆ | ● | ● | | | | ◆ |
| Exterior Wood Trim/Doors | ◆ | | ● | ● | ◆ | | ◆ |

◆ **Highly Recommended** ● **Grade Suitable for Application**

1. For regulatory statements and voluntary certifications (food contact, NSF and others) please go to www.tipure.com/en/support/regulatory

Coatings Grades TiO₂ Physical Properties

| Grade | R-706 | R-900 | R-902+ | R-960 | TS-6200 | TS-6300 | TS-6700 |
|------------------------------------|--------------------|--------|-------------|--------|----------|---------|--------------------|
| Property | | | | | | | |
| TiO ₂ wt%, min. | 93 | 94 | 93 | 90 | 93 | 82 | 93 |
| Alumina, wt%, max. | 2.5 | 4.3 | 4.3 | 3.3 | 3.6 | 5.8 | 2.5 |
| Silica, wt%, max. | 3.0 | — | 1.4 | 5.5 | 3.3 | 9 | 3.0 |
| Specific Gravity | 4.0 | 4.0 | 4.0 | 3.9 | 4.0 | 3.7 | 4.0 |
| Bulking Value, L/kg | 0.250 | 0.250 | 0.250 | 0.255 | 0.250 | 0.270 | 0.250 |
| Organic Treatment | Yes | No | Yes | No | Yes | No | Yes |
| Color, CIE L | 99.4 | 99.8 | 99.6 | 99.9 | 99.4 | 100.0 | 99.4 |
| Median Particle Size, μm | 0.36 | 0.41 | 0.405 | 0.50 | 0.39 | 0.53 | 0.36 |
| Oil Absorption* | 13.9 | 15.2 | 16.2 | 18.7 | 16.0 | 37.0 | 13.9 |
| pH | 8.2 | 8.1 | 7.9 | 7.2 | 8.0 | 9 | 7.5 |
| Resistance at 30 °C (86 °F), k-ohm | 10 | 12 | 8.1 | 6 | 10 | 6 | 4.5 |
| Carbon Black Undertone | 13.8 | 12.4 | 11.7 | 11.6 | 13.0 | 10 | 13.8 |
| Standards Classifications | | | | | | | |
| ASTM D476 | II,III,IV,V,VI,VII | II,III | III,IV,V,VI | III,IV | III,IV,V | III | II,III,IV,V,VI,VII |
| BS 1851/ISO 591/ DIN 55912 | R2 | R2 | R2 | R3 | R3 | R3 | R2 |
| JIS K5116 | R2 | R1 | R4 | R4 | R4 | — | R2 |

* As measured by X-Ray Fluorescence Spectroscopy

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