

# DuPont™ Ti-Pure®

## TITANIUM DIOXIDE

### PHYSICAL PROPERTIES

DuPont™ Ti-Pure® TiO <sub>2</sub> for Coatings — Dry Grades	Property				
	R-900	R-902+	R-706	R-960	R-931
TiO <sub>2</sub> , wt%, min.	94	93	93	89	80
Alumina, wt%	4.3	4.3	2.4	3.3	6.4
Silica, wt%	—	1.4	3.0	5.5	10.2
Specific Gravity	4.0	4.0	4.0	3.9	3.6
Bulking Value, L/kg gal/lb	0.250 0.030	0.250 0.030	0.250 0.030	0.255 0.031	0.275 0.033
Organic Treatment	No	Yes	Yes	No	No
Color, CIE L*	99.8	99.6	99.4	99.9	100.0
Median Particle Size, μm	0.41	0.405	0.36	0.50	0.55
Oil Absorption	15.2	16.2	13.9	18.7	35.9
pH	8.1	7.9	8.2	7.2	8.9
Resistance at 30°C (86°F), k-ohm	12	8.1	10	6	4
Carbon Black Undertone	12.4	11.7	14.5	11.6	9.8
<b>Standards Classifications</b>					
ASTM D476	II,III	III,IV,V,VI	II,III,IV,V,VI,VII	III,IV	IV
BS 1851/ISO 591/DIN 55912	R2	R2	R2	R3	R3
JIS K5116	R1	R4	R2	R4	—



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**PHYSICAL PROPERTIES (continued)**

DuPont™ Ti-Pure® TiO <sub>2</sub> for Coatings — Slurry Grades	Property		
	R-746	R-942	R-741
Solids, wt%	<b>76.5</b>	<b>76.5</b>	<b>64.5</b>
Grit, Unbrushed, wt%, 325 mesh	<b>0.010</b>	<b>0.010</b>	<b>0.015</b>
Grit, Brushed, wt%, 325 mesh	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
Slurry Density, lb/gal	<b>19.4</b>	<b>19.4</b>	<b>15.6</b>
Slurry, pH	<b>8.5</b>	<b>9.3</b>	<b>8.1</b>
Viscosity, Brookfield at 25 cP	<b>150</b>	<b>250</b>	<b>150</b>
Rheology, Hercules Deflection at 500 rpm, cm	<b>1.2</b>	<b>1.7</b>	<b>1.5</b>
Emulsion Gloss, 60° at 27 PVC	<b>NA</b>	<b>43</b>	<b>NA</b>
Emulsion Gloss, 20° at 18 PVC	<b>59</b>	<b>NA</b>	<b>NA</b>
Biocide, Non-mercuric, Non-formaldehyde Releasing	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

For further information about this grade or to request a sample, please see the DuPont Titanium Technologies web site.

DuPont Titanium Technologies

[www.titanium.dupont.com](http://www.titanium.dupont.com)

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