



Ti-Pure™ Titanium Dioxide

Physical Properties

Ti-Pure™ TiO ₂ for Coatings— Dry Grades	Property					
	R-900	R-902+	R-706	R-960	TS-6300	TS-6200
TiO ₂ , wt%, min.*	94	93	93	90	82	93
Alumina, wt%	4.3	4.3	2.5	3.3	5.8	3.6
Silica, wt%	—	1.4	3.0	5.5	9	3.3
Specific Gravity	4.0	4.0	4.0	3.9	3.7	4.0
Bulking Value, L/kg	0.250	0.250	0.250	0.255	0.27	0.250
Organic Treatment	No	Yes	Yes	No	No	Yes
Color, CIE L*	99.8	99.6	99.4	99.9	100.0	99.4
Median Particle Size, μm	0.41	0.405	0.36	0.50	0.53	0.39
Oil Absorption	15.2	16.2	13.9	18.7	37	16.0
pH	8.1	7.9	8.2	7.2	9	8.0
Resistance at 30 °C (86 °F), k-ohm	12	8.1	10	6	6	10
Carbon Black Undertone	12.4	11.7	13.8	11.6	10	13.0
Standards Classifications						
ASTM D476	II,III	III,IV,V,VI	II,III,IV,V,VI,VII	III,IV	III	III,IV,V
BS 1851/ISO 591/DIN 55912	R2	R2	R2	R3	R3	R3
JIS K5116	R1	R4	R2	R4	—	R4

*As measured by X-Ray Fluorescence Spectroscopy

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

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Replaces: H-65965-11
C-10420 (7/15)