



KRONOS

PRODUCT DATA SHEET

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KRONOS[®] 1071

Titanium Dioxide Pigment

Anatase Grade for Paint, Ceramics and Fibers

Applications

Paints where excellent dispersion is required
Suitable dispersing agent required for aqueous paints
Delustering acrylic, rayon, acetate and triacetate fibers
Mill addition for porcelain enamels
Printing inks

Typical Properties

Composition - TiO ₂	96%
Specific Gravity	3.7
Bulking Value	0.0324 gallons/lb.
pH	7.0-8.0
Oil Absorption ±10%	20.0
Retained on 325 Mesh	0.010% maximum

Characteristics

Readily dispersed in oil based paints
High brightness and blue tone in ceramics
Lowest abrasion in inks

Classifications

ASTM D 476	Type I
Color Index	Pigment White 6 (77891)
DIN 55912 Part 1	Group A1
CAS No.	13463-67-7

Chemical and physical characteristics of KRONOS TiO₂ grades

		Standard classification ¹	Stabilised with compounds of these elements	TiO ₂ content ² minimum [%]
Anatase pigments	KRONOS 1001	A1	–	99
	KRONOS 1014	A2	Al	97.5
	KRONOS 1071	A2	Al, Si	96
	KRONOS 1074	A2	Al, Mn, Si	94
	KRONOS 1075	A2	Al, Si	95
	KRONOS 1077	A1	–	98.5
	KRONOS 1080	A1	Sb	98
	KRONOS 1171 Titanium dioxide E 171	A1	–	99
Rutile pigments primarily for coatings	KRONOS 2044	R3	Al, Si	82
	KRONOS 2047	R3	Al, Si	88
	KRONOS 2056	R2	Al, Si	94
	KRONOS 2063	R2	Al	95
	KRONOS 2063 S	R2	Al	95
	KRONOS 2160	R2	Al, Si	90.5
	KRONOS 2190	R2	Al, Zr	94
	KRONOS 2300	R2	Al	94.5
	KRONOS 2310	R2	Al, Si, Zr	92.5
Rutile pigments primarily for plastics	KRONOS 2211	R2	Al	95.5
	KRONOS 2220	R2	Al, Si	92.5
	KRONOS 2222	R2	Al, Si	92.5
	KRONOS 2225	R2	Al, Si	94.5
	KRONOS 2230	R2	Al, Si	96
	KRONOS 2233	R2	Al, Si	96
	KRONOS 2257	R2	Al, Si	91
	KRONOS 2450	R2	Al, Si	96
	KRONOS 2500	R2	Al	97.5
Rutile pigments primarily for paper laminates	KRONOS 2080	R3	Al	87
	KRONOS 2081	R2	Al, Si	91
	KRONOS 2084	R2	Al	93
	KRONOS 2087	R3	Al	87
Titanium dioxide without pigmentary properties	KRONOS 3000	–	–	99
	KRONOS 3025	–	–	99

1. The classification A1, A2, R1, R2 and R3 corresponds to BS 1851, ISO Standard 591 and DIN 55 912 Part I.

2. Titanium dioxide content and density of the pigment depends on the type and quantity of the treatment substances which are used to improve the application properties. Pure rutile has a density of 4.2 and pure anatase 3.8.

Density ² [g/cm ³]	Bulk density ² [kg/m ³]	Relative scattering power ⁴	Oil absorption (ISO 787/5)	Weather resistance ⁶	
3.8	600	64	20	–	KRONOS 1001
3.8	650	89 ⁵	18	–	KRONOS 1014
3.7	700	74	20	–	KRONOS 1071
3.7	600	73	21	–	KRONOS 1074
3.7	650	69	20	–	KRONOS 1075
3.8	450	67	20	–	KRONOS 1077
3.8	450	67	20	–	KRONOS 1080
3.8	600	70	20	–	KRONOS 1171 Titanium dioxide E 171
3.6	500	84	38	B	KRONOS 2044
3.8	550	88	26	B	KRONOS 2047
4.1	700	97	20	B	KRONOS 2056
4.1	800	101	18	C	KRONOS 2063
4.1	800	101	18	C	KRONOS 2063 S
3.9	800	95	18	A	KRONOS 2160
4.1	750	103	18	B	KRONOS 2190
4.1	850	101	16	B	KRONOS 2300
4.0	800	102	16	A	KRONOS 2310
4.1	900	105 ⁵	13	C	KRONOS 2211
4.0	900	99 ⁵	17	A	KRONOS 2220
4.0	900	103 ⁵	17	A	KRONOS 2222
4.0	750	101 ⁵	16	B	KRONOS 2225
4.2	900	104 ⁵	14	B	KRONOS 2230
4.1	700	104 ⁵	13	B	KRONOS 2233
3.9	800	86 ⁵	24	A	KRONOS 2257
4.1	900	106 ⁵	14	C	KRONOS 2450
4.2	800	105 ⁵	12	C	KRONOS 2500
3.8	600	–	18	A	KRONOS 2080
4.0	700	–	21	A	KRONOS 2081
4.0	750	–	15	A	KRONOS 2084
3.8	600	–	20	A	KRONOS 2087
3.8	750	–	–	–	KRONOS 3000
4.2	850	–	–	–	KRONOS 3025

3 The bulk densities of the pigments are approximate values and may vary, depending on the storage conditions

4 The relative scattering power is a measure of the tinting strength and hiding power of titanium dioxide pigments. The determination of the relative scattering power by the DIN 53 165 method is part of the quality control in all our plants. An internal standard is used as the reference pigment

5 The relative scattering power is determined in a plastisol formulation. An internal standard is used as the reference pigment

6 A = imparts the highest weather resistance
B = imparts good weather resistance
C = imparts weather resistance