

Technical Data Sheet

DelikeColors® Green 1030

Description

Appearance and character	Green crystalline powder
Molecular formula	Cr ₂ O ₃ Chromium oxide(Chromium oxide green)
C.I.No	Pigment Green 17 (77288)
CAS-No	1308-38-9
Description	DelikeChem NIR Colors™ infrared reflective grade chromium oxide pigments, Type 8599, blue-green phase chromium oxide pigments, belong to DelikeChem synthetic chromium oxide pigments, near-infrared reflective pigments green pigments in the product group.

Technical data

Color value and coloring power					
Standard sample	DelikeColors® Green 1030 Specimen				
Test slurry based on non-dry alkyd resin	FULL SHADE		TINT SHADE		Test Method
			TiO ₂ (1: 20)		D No.01 ⁺
	Min	Max	Min	Max	
ΔL*	-0.7	0.7	-0.7	0.7	
Δa*	-0.7	0.7	-0.7	0.7	
ΔB*	-0.7	0.7	-0.7	0.7	
ΔE _{ab}		1.0		1.0	
Relative coloring power [%]			95	105	

Resistance Properties					
MEK	5	Ethanol	5	Ethyl Acetate	5
Mineral Spirits	5	Water	5	Xylene	5
Acid	5	Alkali	5		
Legend: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent					

Product Characteristics					
Migration (1-5)	5	Light-fastness (1-8) FULL SHADE	8	Light-fastness (1-8) TINT SHADE	8
Weatherfastness (1-5) FULL SHADE	5	Weatherfastness (1-5) TINT SHADE	5		
Heat Stability (°C/°F)	982°C (HDPE)	Warpage Rating (1-3) Plastic	1	Overpaint Resistance Paints	5
FULL SHADE 1: 1 Alkyd resin / melamine; TINT SHADE 1: 10 TiO ₂					
Warpage: 1 = minimal, 2 = some, 3 = severe Weatherfastness: 1=Poor, 2=Fair, 3=Good, 4=Very Good, 5=Excellent Lightfastness: 1-2=Poor, 3-4=Fair, 5=Good, 6-7=Very Good, 8=Excellent					

Technical data	Min	Max	
Cr ₂ O ₃ Content [%]	98.0	99.6	ISO4621-1986
Water-soluble salt[%]		0.70	ISO4621-1986
hexavalent chromium [ppm]	ND	~ 5	D No.02 ⁺
Screenings (0.045mm) [%]		~ 0.30	ISO787-7:2009
Powder size [um]	3.0	~ 4.0	D No.03 ⁺
PH	6	8	ISO787-9:1995
Oil Absorption [g/100mg]		25	ISO787-5:1995

Applications					
Plastics					
PVC	PE	PP	PS	PET	
Coatings					
Automotive/Aerospace	Industrial Coating	Powder Coating	Colored Plastics	Enamel	
Other					
Engobes	Screed	Construction	Coil Coating	Paper Manufacture	Colored Plastics
This pigment can also be used in the fields of abrasives, weathering materials, metal targets, etc. due to its unique wear and temperature resistance properties.					

Packaging

We offer two types of packaging for our customers	25kg paper-plastic composite packaging
	1000kg preparation package

General storage conditions	DELIKECHEM recommends that you store chromium oxide in a way that protects it from moisture and prevents contamination with other substances.
	Although DELIKECHEM chrome oxide pigments are very stable and long lasting, we recommend that you use them within 10 years.
	Although DELIKECHEM chromium oxide pigments can be stored for 10 years, we must consider the shelf life of the packaging, which is described as follows (under regular conditions).
	25kg paper-plastic composite packaging.....5 Years 1000kg preparation package.....3 Years

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