

## Standard™ Pigment Series – Green 1000

### Product Identification

Product Name:	Chromium(III) Oxide Green
Synonyms:	Chromium Oxide Green; Chrome Oxide Green;
CAS No.:	1308-38-9
EINECS No.:	215-160-9
EC No.:	215-160-9
Molecular Formula:	Cr <sub>2</sub> O <sub>3</sub>
Pigment Index:	Green 17
Color Index:	77288

### Chemical Nature

Within the VerdeChrome Standard™ series, this product boasts the most vivid emerald green hue and the finest particle size. It can achieve excellent dispersion without the need for secondary grinding.



POWDER



1:1 FULL SHADE



1:10 TINT SHADE

### Typical Properties

Appearance:	Bright emerald green nano powder	
Chemical Composition:	Cr <sub>2</sub> O <sub>3</sub>	≥ 98.5%
Tapped Density:	g/cm <sup>3</sup>	1.0-2.0
Density:	g/cm <sup>3</sup>	5.2
Water Soluble Matter:		≤ 0.3%
Moisture:	Wt. % @ 110°C	≤ 1.0%
Typical pH:		5.0-8.0
Average particle size	μm	1.0-2.0
Oil Absorption	g/100mg	25

batch-to-batch color difference

+/- 5%

**\* The above values should not be construed as specifications.**

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### ***Product Characteristics***

Migration:	1-5	5
Light-fastness FULL SHADE:	1-8	8
Light-fastness TINT SHADE:	1-8	8
Weatherfastness FULL SHADE:	1-5	5
Weatherfastness TINT SHADE:	1-5	5
Heat Stability :	°C/°F	982°C (HDPE)
Warpage Rating Plastic:	1-3	1
Overpaint Resistance Paints:		5

### **Ratio & Rating Definitions**

FULL SHADE: 1:1 Alkyd resin/melamine; TINT SHADE: 1:10 TiO<sub>2</sub>

Warpage: 1 = minimal, 2 = some, 3 = severe

Weatherfastness: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent

Light-fastness: 1-2 = Poor, 3-4 = Fair, 5 = Good, 6-7 = Very Good, 8 = Excellent

**\* The above values should not be construed as specifications.**

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### ***Resistance Properties***

This product has a tolerance rating of 5 for methyl ethyl ketone (MEK), ethanol, ethyl acetate, mineral spirits, water, xylene, acids and alkalis.

With the rating scale defined as 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good and 5 = Excellent, a rating of 5 represents the highest level of tolerance.

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### ***Application Scenarios***

In the coating sector, its applications span a wide range. For civil uses, it is incorporated into architectural exterior coatings and industrial anti-corrosion paints, endowing the coatings with long-lasting vivid green hues as well as excellent resistance to UV rays, harsh weather erosion and high temperatures. It also plays a critical role in military coatings, as its robust durability provides reliable color protection for military equipment under extreme conditions.

Additionally, it serves as an ideal colorant for rubber products, non-woven fabrics, ceramic glazes and cement-based building materials, featuring high color reproducibility and minimal batch-to-batch color difference to meet stringent industry requirements.

## **Important**

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