

Pigment Green 7

1. Product Information

Product Name: Pigment Green 7

Colour Index No.: C.I. PG7

Chemical Name: Phthalocyanine Green

Chemical Class: Phthalocyanine

CAS No.: [1328-53-6]

EINECS No.: 215-524-7

Molecular Formula: C₃₂HCl₁₅ CuN₈ (typical chlorinated form)

Typical Structure: Polychlorinated copper phthalocyanine

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Blue-green powder
Hue	Blue-shade green
Density (g/cm³)	Approx. 1.80 - 2.10
Oil Absorption (g/100g)	Approx. 30 - 45
pH Value (10% slurry)	5.5 - 7.5
Lightfastness (1-8)	8 (Excellent)
Heat Resistance (°C)	300+

Property	Specification / Description
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	5 (Excellent)
Acid Resistance (1-5)	5 (Excellent)
Alkali Resistance (1-5)	5 (Excellent)

(Note: 1=Poor, 5=Excellent; Actual performance depends on application conditions)

3. Application Characteristics

Primary Applications:

Paints & Coatings: All types of industrial coatings, automotive coatings, architectural paints

Plastics: All major polymers including polyolefins, PVC, engineering plastics

Printing Inks: All printing processes including offset, gravure, flexographic, and screen inks

Textiles: Pigment printing and mass coloration

Specialty Applications: Artists' colors, cosmetics, and other specialty uses

Key Advantages:

Outstanding lightfastness and weather resistance

Excellent heat stability

Superior chemical resistance

High tinting strength

Cost-effective

Environmentally friendly

