

Pigment Blue 15:4

1. Product Information

Product Name: Pigment Blue 15:4

Colour Index No.: C.I. PB15:4

Chemical Name: Copper Phthalocyanine Blue, β -stabilized form

Chemical Class: Phthalocyanine

CAS No.: [147-14-8] (same as PB15, different crystal form)

EINECS No.: 205-685-1

Molecular Formula: $C_{32}H_{16} CuN_8$

Typical Structure: Copper phthalocyanine complex, stabilized β -crystal form

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Greenish-blue powder
Hue	Greenish blue (stabilized β -form)
Density (g/cm³)	Approx. 1.50 - 1.65
Oil Absorption (g/100g)	Approx. 35 - 50
pH Value (10% slurry)	5.5 - 7.5
Lightfastness (1-8)	8 (Excellent)
Heat Resistance (°C)	300+
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	5 (Excellent)

Property	Specification / Description
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: Industrial coatings, automotive coatings, powder coatings

Plastics: Engineering plastics, polyolefins, PVC

Printing Inks: Offset inks, gravure inks, flexographic inks

Specialty Applications: Artists' colors, textile printing

Key Advantages:

Stabilized β -form - excellent flocculation and crystallization resistance

Outstanding lightfastness and weather resistance

Excellent heat stability

Superior chemical resistance

High tinting strength

Excellent rheological properties