

Pigment Orange 13

1. Product Information

Product Name: Pigment Orange 13

Colour Index No.: C.I. PO13

Chemical Name: Diarylide Orange

Chemical Class: Disazo Pigment (Diarylide)

CAS No.: [3520-72-7]

EINECS No.: 222-525-8

Molecular Formula: C₃₂H₂₄Cl₂N₆ O₄

Typical Structure: 3,3'-Dichlorobenzidine based disazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Bright reddish-orange powder
Hue	Reddish orange
Density (g/cm³)	Approx. 1.4 - 1.6
Oil Absorption (g/100g)	Approx. 45 - 60
pH Value (10% slurry)	6.5 - 8.0
Lightfastness (1-8)	5-6 (Moderate to Good)
Heat Resistance (°C)	160 - 180

Property	Specification / Description
Water Resistance (1-5)	5 (Excellent)
Oil Resistance (1-5)	4 (Good)
Acid Resistance (1-5)	4 (Good)
Alkali Resistance (1-5)	3 (Moderate)

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

3. Application Characteristics

Primary Applications:

Printing Inks: Main application in **offset printing inks, flexographic inks,** and **gravure inks** for packaging

Plastics: Suitable for **PVC, rubber,** and some **polyolefins** with moderate processing temperatures

Coatings: Used in **industrial coatings** and **architectural coatings** for indoor applications

Office Products: Coloring of stationery and art materials

Key Advantages:

Bright reddish-orange shade

High tinting strength

Good transparency

Cost-effective

Good printing performance