

Pigment Yellow 13

1. Product Information

Product Name: Pigment Yellow 13

Colour Index No.: C.I. PY13

Chemical Name: Diarylide Yellow AAMX

Chemical Class: Disazo Pigment (Diarylide Yellow)

CAS No.: [5102-83-0]

EINECS No.: 225-822-9

Molecular Formula: C₃₂H₂₆ Cl₂N₆ O₄

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

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Greenish-yellow powder
Hue	Greenish yellow
Density (g/cm ³)	Approx. 1.4 - 1.6
Oil Absorption (g/100g)	Approx. 40 - 55
pH Value (10% slurry)	6.5 - 8.0
Lightfastness (1-8)	5-6 (Moderate to Good)

Property	Specification / Description
Heat Resistance (°C)	180 - 200
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**

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

Coatings: Used in **air-dried coatings** and **industrial finishes**

Office Products: Coloring of stationery and art materials

Key Advantages:

Bright greenish-yellow shade

High tinting strength

Good transparency

Cost-effective

Technical Data Sheet

Good printing performance