

Pigment YELLOW SY-264

1. Product Information

Colour Index No.: C.I. PO5

Chemical Name: Dinitraniline Orange

Chemical Class: Monoazo Pigment

CAS No.: [3468-63-1]

EINECS No.: 222-429-4

Molecular Formula: C₁₆ H₁₀ N₄O₅

Typical Structure: β-Naphthol based monoazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Bright orange powder
Hue	Medium orange
Density (g/cm³)	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)
Heat Resistance (°C)	140 - 160

Property	Specification / Description
Water Resistance (1-5)	4-5 (Good to Excellent)
Oil Resistance (1-5)	4 (Good)
Acid Resistance (1-5)	3 (Moderate)
Alkali Resistance (1-5)	2-3 (Poor to Moderate)

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

3. Application Characteristics

Primary Applications:

Printing Inks: Widely used in **packaging inks**, **flexographic inks**, and **gravure inks**

Coatings: Suitable for **air-dry coatings** and **industrial finishes** where high lightfastness is not critical

Plastics: Limited use in **PVC** and other low-temperature processing plastics

Office Products: Coloring of **wax crayons**, **pencils**, and other stationery items

Textiles: Pigment printing for textiles

Key Advantages:

Bright medium orange shade

Good tinting strength

Cost-effective

Good transparency in printing inks

Easy to disperse