

## Pigment YELLOW SY-242

### 1. Product Information

**Product Name:** Pigment Yellow 3

**Colour Index No.:** C.I. PY3

**Chemical Name:** Acetoacetanilide arylide yellow

**Chemical Class:** Monoazo Pigment (Acetoacetarylde)

**CAS No.:** [6486-24-0]

**EINECS No.:** 229-354-1

**Molecular Formula:** C<sub>16</sub> H<sub>13</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>2</sub>

**Typical Structure:** Chlorinated acetoacetanilide-based monoazo pigment

### 2. Typical Physical and Chemical Properties

Property	Specification / Description
<b>Appearance</b>	Greenish-yellow powder
<b>Hue</b>	Greenish yellow
<b>Density (g/cm<sup>3</sup>)</b>	Approx. 1.4 - 1.6
<b>Oil Absorption (g/100g)</b>	Approx. 45 - 60
<b>pH Value (10% slurry)</b>	6.0 - 8.0
<b>Lightfastness (1-8)</b>	6-7 (Good to Very Good)

Property	Specification / Description
<b>Heat Resistance (°C)</b>	160 - 180
<b>Water Resistance (1-5)</b>	5 (Excellent)
<b>Oil Resistance (1-5)</b>	4 (Good)
<b>Acid Resistance (1-5)</b>	4 (Good)
<b>Alkali Resistance (1-5)</b>	3 (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 **offset inks**, **flexographic inks**, and **gravure inks**, particularly for packaging applications

**Coatings:** Suitable for **industrial coatings**, **architectural coatings**, and **automotive refinishes**

**Plastics:** Used in **PVC**, **polyolefins**, and **engineering plastics** with moderate processing temperatures

**Textiles:** Pigment printing for textiles

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#### Key Advantages:

Bright greenish-yellow shade

Technical Data Sheet

Good lightfastness

Excellent tinting strength

Good solvent resistance

Cost-performance balance