

Pigment RED SY-235

1. Product Information

Colour Index No.: C.I. PR112

Chemical Name: N/A (Monoazo Pigment)

Chemical Class: Monoazo Acetoacetarylide Pigment

CAS No.: [6535-46-2]

EINECS No.: 229-440-3

Molecular Formula: $C_{24}H_{21}ClN_4O_4$ **Typical Structure:** Acetoacetarylide-based monoazo pigment

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Bright red powder
Hue	Medium to yellowish red
Density (g/cm³)	Approx. 1.4 - 1.6
Oil Absorption (g/100g)	Approx. 40 - 55
pH Value (10% slurry)	6.0 - 8.0
Lightfastness (1-8)	6-7 (Good to Very Good)
Heat Resistance (°C)	180 - 200

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

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

3. Application Characteristics

Primary Applications:

Plastics Coloring: Excellent performance in **polyolefins (PP, HDPE, LDPE)**, **PVC**, and **engineering plastics**. Exhibits good heat resistance and minimal warpage in polypropylene.

Coatings: Suitable for industrial coatings, automotive refinishes, and decorative paints due to good durability.

Printing Inks: Used in packaging inks where good fastness properties are required.

Key Advantages:

Bright, yellowish-red shade.

Good overall fastness properties (light, heat, and weather resistance).

Good dispersibility in various media.

Cost-effective high-performance red pigment.