

Pigment RED SY-212

1. Product Information

Colour Index No.: C.I. PR48:1

Chemical Name: 2B Lake Red, Barium Salt Lake

Chemical Class: Azo Lake Pigment

CAS No.: 7585-41-3

EINECS No.: 231-492-4

Molecular Formula: C₁₈ H₁₂BaCl₂N₂O₆ S

Typical Structure: Based on

2-[(2-Hydroxy-1-naphthyl)azo]-4-chloro-5-methylbenzenesulfonic acid, barium salt

2. Typical Physical and Chemical Properties

Property	Specification / Description
Appearance	Yellowish red powder
Hue	Medium yellowish red, yellower than PR57:1
Density (g/cm³)	Approx. 1.5 - 2.0
Oil Absorption (g/100g)	Approx. 45 - 65
pH Value (10% slurry)	6.5 - 8.5
Lightfastness (1-8)	4-5 (Moderate, may be limited for outdoor applications)

Property	Specification / Description
Heat Resistance (°C)	160 - 180 (short-term)
Water Resistance (1-5)	5 (Excellent, due to insolubility in water)
Oil Resistance (1-5)	4 (Good)
Acid Resistance (1-5)	3 (Moderate, may be unstable in strong acids)
Alkali Resistance (1-5)	3 (Moderate, may be unstable in strong alkalis)

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

3. Application Characteristics

Primary Applications:

Plastics Coloring: Widely used for PVC (polyvinyl chloride), including rigid and flexible PVC. Also used for polyethylene (PE), polypropylene (PP), polyurethane (PU), etc. Offers good dispersibility and tinting strength.

Inks: Commonly used in flexographic printing inks, gravure printing inks, and textile printing inks.

Coatings: Used in industrial and decorative paints, though its lightfastness may limit use in high-end or outdoor coatings.

Rubber: Used for coloring rubber products.

Stationery: Used in crayons, colored pencils, etc.