

Pigment RED SY-207

1. Product Information

Item	Description
Product Name	Pigment Red 13
CAS Number	[6371-96-6]
EINECS Number	[228-921-4]
Color Index Name	PR13
Chemical Class	Azo (Monoazo)
Molecular Formula	$C_{22}H_{15}Cl_2N_3O_2$

2. Typical Properties

Property	Typical Value / Description
Appearance	Red Powder
Color Mass Tone	Medium Scarlet Red
Color Undertone	Yellowish-Red
Density (at 20°C)	~1.4 - 1.6 g/cm ³
Bulk Density	~0.3 - 0.5 kg/L

Property	Typical Value / Description
Oil Absorption	40 - 60 g/100g
Specific Surface Area	20 - 50 m ² /g

3. Application Properties

PR13 is a versatile pigment with good overall fastness properties for its cost.

Property	Performance Rating	Remarks
Lightfastness	Good (3-4 in full tone)	Good in deep shades, may fade in pale tints. Performance depends on application medium.
Weatherfastness	Moderate	Not recommended for long-term exterior exposure unless used in high-performance systems.
Heat Resistance	Good (up to 160-180°C)	Stable at typical processing temperatures for many plastics and coatings.
Migration Resistance	Good	Generally shows low bleeding in most common polymers.
Acid Resistance	Good	Stable in weak acids.
Alkali Resistance	Fair to Good	May be sensitive to strong alkalis.

Property	Performance Rating	Remarks
Solvent Resistance	Fair	Shows limited resistance to some polar solvents.

4. Dispersibility

Pigment Red 13 can be dispersed using standard equipment common in the paint, ink, and plastics industries (e.g., high-speed dispersers, bead mills, triple-roll mills). It offers a good balance of strength and rheological behavior.

5. Recommended Applications

Pigment Red 13 is a cost-effective, general-purpose red pigment used in a wide range of applications:

Printing Inks: Especially for packaging inks (flexographic and gravure), news inks, and poster inks.

Coatings: Air-drying and oven-drying industrial finishes, decorative paints, and emulsion paints.

Plastics: Coloring of PVC, LDPE, PP, PS, and polyurethane. Suitable for rubber and synthetic fibers.

Office & Artist Supplies: Colored pencils, wax chalks, and water-based markers.