

Pigment RED SY-205

1. Typical Properties

Property	Specification / Typical Value
Color Index Name	Pigment Red 9
Color Index Number	12460
Chemical Formula	$C_{24}H_{17} N_3O_3$
Molecular Weight	395.41 g/mol
Appearance	Red Powder
Density (Bulk)	~0.4 - 0.6 g/cm ³
Specific Surface Area	30 - 70 m ² /g
Oil Absorption	40 - 60 g/100g
pH Value (10% Aqueous Slurry)	6.0 - 8.0

2. Physical & Chemical Properties

Property	Value / Description
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Solubility	Practically insoluble in water. Low solubility in most common organic solvents.
Melting Point	> 300 °C (Decomposes)
Stability	<p>Heat Stability: Up to 180°C (depending on application medium).</p> <p>Lightfastness (Full Shade): Moderate to Good.</p> <p>Weatherfastness: Moderate (not recommended for long-term exterior exposure).</p> <p>Acid and Alkali Resistance: Good resistance to weak acids and alkalis. Variable with strong agents.</p>

3. Application Properties

Color: Medium red with a yellowish undertone.

Tinting Strength: High.

Transparency: Semi-transparent to opaque, depending on formulation and particle size distribution.

Dispersibility: Good. Can be dispersed using standard equipment.

Migration Resistance: Good resistance to bleeding in most common plasticizers and solvents.

4. Recommended Applications

Pigment Red 9 is a versatile, economical red pigment used in a wide range of applications:

Printing Inks: Especially for packaging inks, flexographic and gravure inks.

Paints: Industrial finishes, air-dry systems.

Plastics: For coloring PVC, polyolefins, and other polymers where processing temperatures are not excessive.

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

Textile Printing.