

Pigment RED SY-209

1. Product Identification

Item	Details
C.I. Name	C.I. Pigment Red 22
C.I. Number	C.I. PR22
Chemical Type	Monoazo (BON Arylamide)
Common Names	Permanent Red FGR, Fast Red GR

2. Typical Physical & Chemical Properties

Property	Specification / Typical Value
Appearance	Red Powder
Color Index	C.I. No. 12315
CAS No.	6448-95-9
EINECS No.	229-247-4
Molecular Formula	C ₂₅ H ₁₉ N ₃ O ₂

Property	Specification / Typical Value
Bulk Density (approx.)	0.4 - 0.6 g/cm ³
Oil Absorption	45 - 60 g/100g
Specific Surface Area	20 - 40 m ² /g
pH Value (10% Aqueous Slurry)	6.0 - 8.0

3. Typical Performance Properties

Property	Rating	Note
Color Mass-tone	Medium Red with yellowish (orange) undertone	-
Tinting Strength	High	-
Transparency	Semi-Transparent	Beneficial for printing inks
Lightfastness (Mass-tone)	3-4 (1=Poor, 8=Excellent)	Moderate; not for exterior use
Lightfastness (Tint-tone)	3 (1=Poor, 8=Excellent)	-
Heat Resistance	180°C - 200°C	Suitable for many plastics processing

Property	Rating	Note
Weather Fastness	Poor	Not recommended for outdoor applications
Migration Resistance	Fair to Good	Can bleed in certain plastics (e.g., soft PVC)
Acid & Alkali Resistance	Fair	May be sensitive to strong acids and alkalis
Solvent Resistance	Fair	Limited resistance to strong solvents

4.Recommended Applications

This pigment is widely used in systems where high weather fastness is not a critical requirement.

Printing Inks: An industry standard, especially for **offset and publication gravure inks**. Its transparency and color strength make it ideal for process colors (Magenta).

Paints & Coatings: Primarily for **indoor industrial finishes** and decorative paints.

Plastics: Suitable for coloring PVC, LDPE, PP, and other polymers processed below 200°C.

Office & Art Supplies: Used in colored pencils, wax crayons, and water-based paints.