

Pigment RED SY-206

1. Product Information

Item	Description
Product Name	Pigment Red 12
C.I. Name	C.I. Pigment Red 12
Common Name	Para Red (in historical context)
Chemical Class	Monoazo
CAS Number	6410-32-8
EINECS Number	229-115-9
Molecular Formula	$C_{16}H_{11}ClN_4O_3$

2. Typical Properties

Property	Specification / Typical Value
Physical Form	Red Powder
Color Mass Tone	Medium Scarlet Red
Color Undertone	Yellowish-Red
Density (g/cm³)	~1.5 - 1.6
Bulk Volume (US gal/lb)	~0.06 - 0.07
Oil Absorption (g/100g)	40 - 60

Property	Specification / Typical Value
----------	-------------------------------

Specific Surface Area (m²/g)	20 - 40
--	---------

3.Application Properties

Property	Performance & Comments
----------	------------------------

Lightfastness	Moderate to Poor (1-3 on Blue Wool Scale, depending on medium and depth). Not recommended for exterior applications.
----------------------	---

Weatherfastness	Poor. Not suitable for outdoor use.
------------------------	--

Heat Stability	Up to 160°C (320°F) for short periods. May darken at higher temperatures.
-----------------------	--

Fastness to Solvents	Poor to Moderate. Shows bleeding in many common solvents.
-----------------------------	--

Fastness to Water	Good
--------------------------	------

Fastness to Oil	Good
------------------------	------

Acid & Alkali Resistance	Poor. Sensitive to strong acids and alkalis.
-------------------------------------	---

Migration Resistance	Can show bleeding in plasticized PVC and other systems with migrating components.
-----------------------------	---

Dispersibility	Good in most common grinding equipment.
-----------------------	---

4.Recommended Applications

Due to its cost-effectiveness and color strength, PR 12 is used in applications where high durability is not required.

Industrial Finishes: Air-drying systems, primers, and undercoats.

Printing Inks: Especially for paper and packaging inks where lightfastness is not critical.

Office & Artist Supplies: Lower-grade poster paints, chalks, and crayons.

Coloring of General Materials: Soaps, paper mass, and specialty coatings.