

## Pigment RED SY-232

### Product Information

**Colour Index No.:** C.I. PR63:1

**Chemical Name:** BON Maroon, Calcium Salt Lake

**Chemical Class:** Azo Lake Pigment

**CAS No.:** [6417-51-8]

**EINECS No.:** 229-153-7

**Molecular Formula:**  $C_{22}H_{14}CaN_2O_6$  S (May vary)

**Typical Structure:** Based on 2-Naphthalenesulfonic acid, 4-[(2-hydroxy-1-naphthalenyl)azo]-3-methyl-, calcium salt

### 2. Typical Physical and Chemical Properties

Property	Specification / Description
<b>Appearance</b>	Deep maroon to bordeaux red powder
<b>Hue</b>	Bluish-red, maroon shade
<b>Density (g/cm<sup>3</sup>)</b>	Approx. 1.5 - 1.8
<b>Oil Absorption (g/100g)</b>	Approx. 45 - 65
<b>pH Value (10% slurry)</b>	6.5 - 8.5
<b>Lightfastness (1-8)</b>	5-6 (Good)

Property	Specification / Description
<b>Heat Resistance (°C)</b>	160 - 180
<b>Water Resistance (1-5)</b>	5 (Excellent)
<b>Oil Resistance (1-5)</b>	4 (Good)
<b>Acid Resistance (1-5)</b>	3 (Moderate)
<b>Alkali Resistance (1-5)</b>	3 (Moderate)

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

### 3. Application Characteristics

#### Primary Applications:

**Printing Inks:** Used in various printing inks, particularly where its specific maroon shade is required. It provides good printability and rheological properties.

**Plastics Coloring:** Suitable for coloring PVC and other polymers processed at moderate temperatures. Its heat resistance is adequate for many plastic applications.

**Coatings:** Used in industrial and decorative coatings where its coloristic properties meet requirements.

**Rubber & Stationery:** Employed in coloring rubber products and stationery items.

#### Key Advantages:

Attractive maroon/bordeaux shade

Good tinting strength

Generally favorable fastness properties for industrial applications

Cost-effective maroon pigment option

**Limitations:**

Moderate chemical resistance

Not suitable for high-temperature processing applications

May have limitations in exterior applications requiring high lightfastness