

## Pigment Purple SY-287

### 1. Product Information

**Colour Index No.:** C.I. PV27

**Chemical Name:** Cobalt Violet

**Chemical Class:** Inorganic Complex

**CAS No.:** [13455-02-0]

**EINECS No.:** 236-656-0

**Molecular Formula:**  $\text{Co}_3(\text{PO}_4)_2 \cdot 8\text{H}_2\text{O}$  (Cobalt phosphate octahydrate)

**Typical Composition:** Cobalt phosphate with crystal water

### 2. Typical Physical and Chemical Properties

Property	Specification / Description
<b>Appearance</b>	Light violet powder
<b>Hue</b>	Reddish violet
<b>Density (g/cm<sup>3</sup>)</b>	Approx. 2.7 - 3.0
<b>Oil Absorption (g/100g)</b>	Approx. 25 - 40
<b>pH Value (10% slurry)</b>	6.5 - 8.0
<b>Lightfastness (1-8)</b>	8 (Excellent)
<b>Heat Resistance (°C)</b>	300+

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

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

### 3. Application Characteristics

#### Primary Applications:

**Artists' Colors:** High-grade artists' paints (oil, acrylic, watercolor)

**Plastics:** Engineering plastics requiring high heat resistance

**Coatings:** High-performance industrial coatings, automotive coatings

**Specialty Applications:** Cosmetic formulations, security inks

#### Key Advantages:

Excellent lightfastness and weather resistance

Outstanding heat stability

Good chemical resistance (except strong acids)

Non-bleeding and non-migrating

Suitable for high-temperature applications