

## Pigment BLUE SY-269

### 1. Product Information

**Product Name:** Pigment Blue 1

**Colour Index No.:** C.I. PB1

**Chemical Name:** Ethyl Blue Lake

**Chemical Class:** Triarylmethane Lake Pigment

**CAS No.:** [1325-87-7]

**EINECS No.:** 215-410-9

**Molecular Formula:** Composition varies with substrate and laking agent

**Typical Composition:** Complex of basic blue dye with inorganic substrates  
(tungstomolybdophosphoric acid, alumina, etc.)

### 2. Typical Physical and Chemical Properties

Property	Specification / Description
<b>Appearance</b>	Bright blue powder
<b>Hue</b>	Reddish blue
<b>Density (g/cm<sup>3</sup>)</b>	Approx. 1.8 - 2.2 (varies with substrate)
<b>Oil Absorption (g/100g)</b>	Approx. 40 - 60
<b>pH Value (10% slurry)</b>	5.5 - 7.5
<b>Lightfastness (1-8)</b>	2-3 (Poor)
<b>Heat Resistance (°C)</b>	120 - 140
<b>Water Resistance (1-5)</b>	3-4 (Moderate to Good)

Property	Specification / Description
<b>Oil Resistance (1-5)</b>	3 (Moderate)
<b>Acid Resistance (1-5)</b>	2 (Poor)
<b>Alkali Resistance (1-5)</b>	2 (Poor)

\*(Note: 1=Poor, 5=Excellent; Performance varies significantly with the specific laking agent and substrate used)\*

### 3. Application Characteristics

#### Primary Applications:

**Printing Inks:** Main application in **packaging inks**, **flexographic inks**, and **gravure inks** where high brightness is required

**Office Products:** Coloring of **ballpoint pen inks**, **stamp pad inks**, and **typewriter ribbons**

**Coatings:** Limited to indoor decorative applications

**Plastics:** Very limited use due to poor heat resistance

#### Key Advantages:

Very bright and intense reddish-blue shade

High tinting strength

Good transparency

Cost-effective for applications not requiring high fastness