

# DCC YELLOW 14247

Green Shade Yellow Inorganic Bismuth Vanadate Pigment



Working Together for Quality®

## SPECIFICATIONS AND PROPERTIES

### DESCRIPTION

DCC Yellow 14247 is a green shade yellow pigment with excellent heat and chemical resistance properties. DCC Yellow 14247 is recommended for use in high-grade industrial and automotive paints where excellent light and weather fastness is required.

<b>Chemical Type/Common Name</b>	Inorganic / Bismuth Vanadate
<b>Colour Index: Generic Name</b>	Pigment Yellow 184
<b>Colour Index: Constitution No.</b>	771740
<b>CAS Registry No.</b>	14059-33-7
<b>Chemical Name</b>	Bismuth Vanadium Oxide

### GENERAL SPECIFICATIONS

<b>Volatile Content (X005)</b>	Max. 1.0%
<b>Conductivity (X017)</b>	Max. 500 (µS/cm)
<b>pH (X018)</b>	6.8 – 7.8
<b>Masstone Shade (L003)</b>	Max. DE* 1.2, DL* ±0.5, DC* ±0.8, DH* ±0.7
<b>Tint (L003)</b>	Strength 100 ± 5%, Max. DE* 1.3, DL* ±0.7, DC* ±0.8, DH* ±0.7
<b>Tint after adjusted strength (L003)</b>	Max. DE* 1.0, DL* ±0.5, DC* ±0.7, DH* ±0.7

### PHYSICAL PROPERTIES

<b>Specific gravity</b>	5.6 g/cm <sup>3</sup>
<b>Oil absorption</b>	28 g/100g
<b>Bulk density</b>	0.6 kg/L
<b>Bulk volume</b>	1.8 L/kg
<b>Specific surface area</b>	7.8 m <sup>2</sup> /g

### PROPERTIES

<b>Ethyl Acetate</b>	Excellent	<b>Soap</b>	Excellent		
<b>MEK</b>	Excellent	<b>Ethyl alcohol</b>	Excellent		
<b>Wax (Paraffin)</b>	Excellent	<b>Mineral spirits</b>	Excellent		
<b>Water</b>	Excellent	<b>Xylene</b>	Excellent		
<b>Dilute Acid (0.5N)</b>	Very Good - Excellent	<b>Dilute Alkali (2.5%)</b>	Excellent		
<b>Over paint bleed resistance (120°C/30 minutes) - Excellent</b>					
<b>Heat Resistance:</b> 120°C/60 minutes – Excellent 150°C/10 minutes – Excellent 200°C/10 minutes – Excellent					
<b>Weather fastness<sup>*)</sup> Full Shade</b>	4-5	<b>Weather fastness<sup>*)</sup> Tint 1:1 TiO<sub>2</sub></b>	5	<b>Weather fastness<sup>*)</sup> Tint 1:10 TiO<sub>2</sub></b>	5
<b>Light fastness Full Shade</b>	Excellent	<b>Light fastness Tint 1:1 TiO<sub>2</sub></b>	Excellent	<b>Light fastness Tint 1:10 TiO<sub>2</sub></b>	Excellent

\*) Assessment was made using the ISO Grey Scale R105 A02 (1 = severe change, 5 = no change)

### RECOMMENDED APPLICATIONS FOR COATINGS

<b>Architectural Water &amp; Universal</b>	●	<b>Coil Coatings</b>	■
<b>Architectural Solvent</b>	●	<b>Automotive Coatings</b>	●
<b>Industrial Fast Air Drying</b>	●	<b>Powder Coatings</b>	■
<b>Industrial Oven Cured</b>	●		
● Recommended      ■ Limited Use      ○ Not Recommended			

"Limited Use" because of lower tint strength, a better choice would be DCC Yellow 2GLMA

### WORLDWIDE INVENTORIES REGISTRATION STATUS

<b>Australia (AICS)</b>	Registered	<b>Canada (DSL)</b>	Registered	<b>China (IECSC)</b>	Registered
<b>Europe (EINECS)</b>	Registered	<b>Japan (ENCS)</b>	Registered	<b>Philippines (PICCS)</b>	Registered
<b>USA (TSCA)</b>	Registered	<b>New Zealand (NZIoC)</b>	Registered	<b>South Korea (KECI)</b>	Registered

### TECHNICAL SERVICE LAB APPROVAL

### QUALITY CONTROL LAB APPROVAL

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