

DCC YELLOW 3GMX-SI

Bright Green Shade Yellow Inorganic Bismuth Vanadate Pigment



Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

DESCRIPTION

DCC Yellow 3GMX-SI is a bright, green shade yellow pigment with stir-in dispersing properties. DCC Yellow 3GMX-SI has the highest colour strength, gloss and opacity versus traditional grades. DCC Yellow 3GMX-SI is especially suitable for automotive, industrial and decorative paint applications.

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

GENERAL SPECIFICATIONS

Volatile Content (X005)	Max. 1.0%
Conductivity (X017)	Max. 500 µs/cm
pH (X018)	6.0 - 8.0
Masstone Shade (L003)	Max. DE* 1.3, DL* ±0.7, DC* ±0.8, DH* ±0.7
Tint (L003)	Strength 100 ±5%, Max. DE* 1.3, DL* ±0.7, DC* ±0.8, DH* ±0.7
Tint after Strength Adjustment (L003)	Max. DE* 1.3, DL* ±0.7, DC* ±0.8, DH* ±0.7

PHYSICAL PROPERTIES

Specific gravity	5.8 g/cm ³
Oil Absorption	26 g/100g
Bulk density	0.5 kg/L
Bulk volume	1.4 L/kg
Specific surface area	TBD

PROPERTIES

Ethyl acetate	Excellent	Soap	Excellent		
MEK	Excellent	Ethyl alcohol	Excellent		
Wax (Paraffin)	Excellent	Mineral spirits	Excellent		
Water	Excellent	Xylene	Excellent		
Dilute acid (0.5N)	Very Good - Excellent	Dilute alkali (2.5%)	Excellent		
Over-paint bleed resistance (120°C/30 minutes)	Excellent				
Heat Resistance:	120°C/60 minutes – Excellent	150°C/10 minutes – Excellent	200°C/10 minutes – Excellent		
Weather fastness^{*)} Full Shade	4-5	Weather fastness^{*)} Tint 1:1 TiO2	5	Weather fastness^{*)} Tint 1:10 TiO2	5
Light fastness Full Shade	Excellent	Light fastness Tint 1:1 TiO2	Excellent	Light fastness Tint 1:10 TiO2	Excellent

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

RECOMMENDED APPLICATIONS FOR COATINGS

Architectural Water & Universal	•	Coil Coatings	•
Architectural Solvent	•	Automotive Coatings	•
Industrial Fast Air Drying	•	Powder Coatings	•
Industrial Oven Cured	•		

• Recommended ■ Limited Use ○ Not Recommended

WORLDWIDE INVENTORIES REGISTRATION STATUS

Australia (AICS)	Registered	Canada (DSL)	Registered	China (IECS)	Registered
Europe (EINECS)	Registered	Japan (ENCS)	Registered	Philippines (PICCS)	Registered
USA (TSCA)	Registered	New Zealand (NZIoC)	Registered	South Korea (KECI)	Registered

TECHNICAL SERVICE LAB APPROVAL			
QUALITY CONTROL LAB APPROVAL			
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