

DCC BLUE A3RN

Red Shade Blue



Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

DESCRIPTION

DCC Blue A3RN is a red shade, highly saturated blue that combines very good tinctorial properties with excellent fastness to light, weather, chemical and solvents. DCC Blue A3RN is a highly transparent blue suitable for opaque and effect shades and is used in high-end coatings and ink applications.

Chemical Type/Common Name	Organic / Indanthrone
Colour Index: Generic Name	PB. 60 / Vat Blue 4
Colour Index: Constitution No.	69800
CAS Registry No.	81-77-6
EC. No.	201-375-5
Chemical Name	5,9,14,18-Anthrazintetrone, 6, 15-dihydro-

GENERAL SPECIFICATIONS

Volatile Content	1.0%
Conductivity	150 (µS/cm)
pH	5.5 – 8.5
Solvent resistance	>4
Masstone Visual Assessment –transparency	-2 (OP) /+ 2 (TR)
Tint	Strength 100 ± 5% Max. DE* 1.4, DL* ±0.7, DC* ±1.3, DH* ±0.8

PHYSICAL PROPERTIES

Specific gravity	1.52 g/cm ³
Oil absorption	50 g/100g
Specific surface area	53.0 m ² /g

PROPERTIES

Ethyl Acetate	Very good - Excellent	Soap	Excellent
Acetone	Very good - Excellent	Toluene	Very good - Excellent
MEK	Very good - Excellent	Ethyl Alcohol	Excellent
Wax (Paraffin)	Excellent	Mineral Spirits	Excellent
DBP	Very good -Excellent	Naphtha	Excellent
Water	Excellent	Xylene	Excellent
Dilute Acid (0.5N)	Excellent	Dilute Alkali (2.5%)	Excellent

COATINGS SPECIFIC DATA

Heat Resistance:	150°C/30 minutes – Excellent	200°C/10 minutes – Excellent	
Over paint Bleed Resistance:	(120°C/30 minutes (N/C) - Excellent		
Weather fastness *) Masstone	5	Weather fastness Tint 1:10 TiO₂	5
Light fastness Masstone	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

DCC BLUE A3RN

Red Shade Blue



Working Together for Quality®

SPECIFICATIONS AND PROPERTIES

INKS SPECIFIC DATA			
Over lacquer resistance of litho prints – N/C (120°C/10 seconds) - Excellent			
Light fastness of Gravure Prints		Light fastness of Gravure Prints	
100% on paper	Excellent	100% on PVC	Excellent
75% on paper	Excellent	75% on PVC	Excellent
50% on paper	Excellent	50% on PVC	Excellent

RECOMMENDED APPLICATIONS FOR INKS			
Solvent Based Nitrocellulose Ink: alcohol rich	•	Solvent Based Polyurethane Ink	•
Solvent Based Nitrocellulose Ink: ester rich	•	Waterbased Inks	•
Solvent Based Polyamide Ink	•	Lithographic Inks	•
UV Flexographic	•	UV Lithographic	•
• Recommended ■ Limited Use ○ Not Recommended			

WORLDWIDE INVENTORIES REGISTRATION STATUS					
Australia (AICS)	Registered	Canada (DSL)	Registered	China (IECSC)	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			
DATE OF ISSUE	4 th January 2016	PAGE 2 OF 2	Ver. # 4.0