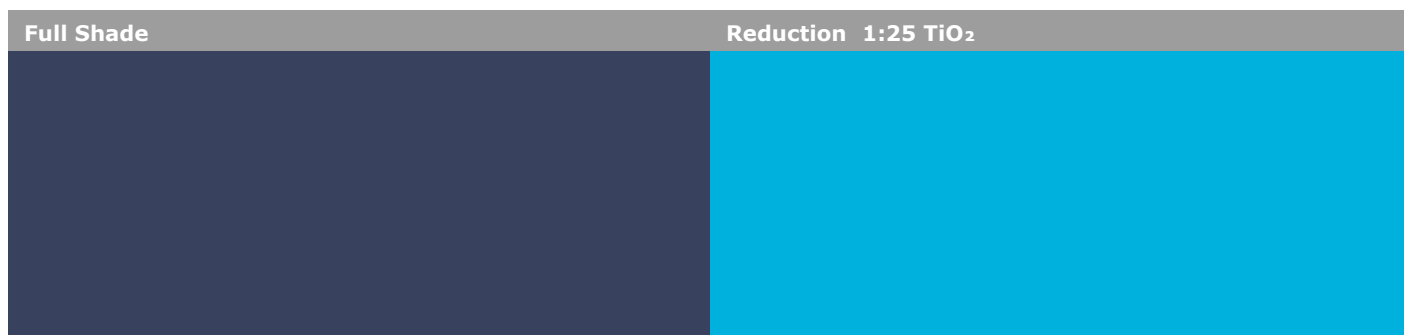


**Product Description**

Chemical characterization	Cu-phthalocyanine blue, beta-mod.
Color Index	Pigment Blue 15:4
Appearance	Blue powder
C.I. No.	74160
CAS No.	147-14-8

Product Description

	Unit	Value	Test Method
Hue angle [1/3 SD]		239.1	acc. to DIN EN ISO/CIE 11664-4
1/3 SD reduction ratio		1:9.5	acc. to DIN 53235-2

Technical Data

	Unit	Value	Test Method
Density	[g/cm³]	typ. 1.5	acc. to ISO 787-10
Bulk volume	[l/kg]	typ. 2.4	
Specific surface	[m²/g]	typ. 40.0	acc. to DIN ISO 66132
Oil absorption	[g/100g]	typ. 45	acc. to ISO 787-5

Fastness Properties

Resistance to Chemicals		
	Value	Test Method
Acid	5	rating acc. to DIN EN ISO 105-A03
Alkali	5	rating acc. to DIN EN ISO 105-A03
Water	5	rating acc. to DIN EN ISO 105-A03
Butanol	2	rating acc. to DIN EN ISO 105-A03
Butylacetate	4 - 5	rating acc. to DIN EN ISO 105-A03
Xylene	4 - 5	rating acc. to DIN EN ISO 105-A03
MEK	4	rating acc. to DIN EN ISO 105-A03
White spirits	4 - 5	rating acc. to DIN EN ISO 105-A03

Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.

Solvent resistance: Pigment was dipped into solvent. Rating with gray scale: 1=poor, 5=excellent.

Tds-ml_b515400-01_02

Disclaimer - The information given in this data sheet is based on the present state of our knowledge & is intended as a general description of our products & their possible applications. Neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Because of the multitude of formulations, production & application conditions, all the above mentioned data have to be adjusted to the circumstances of the processor. As customer use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in any particular application. In addition to that, the legal rights of third parties must always be considered. No liabilities, including those for patent rights, can be derived from this fact for individual cases. It cannot be ruled out that this product contains particles < 0.1 µm. Any user of this product is responsible for determining the suitability of Sudarshan's products for its particular application & to ensure that any proprietary rights & existing laws & legislation are observed.

	Value	Test Method
Overpainting fastness	5	rating acc. to DIN EN ISO 105-A03
Heat resistance [°C]	180	acc. to ISO 787-21
Light fastness [full shade]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02
Light fastness [1/3 SD]	8	acc. to DIN EN ISO 16474-2/DIN EN ISO 105-B02

Overpainting: Tested in alkyd/melamine system with 30 minutes baking time at 160 °C. Rating with gray scale: 1=poor, 5=excellent.

Heat resistance: Tested in alkyd/melamine system.

Light Fastness: Tested in water based automotive system. Rating with 8-step wool scale: 1=poor, 8=excellent.

Weather Fastness		
	Full Shade	1/3 SD
1000 h	5	5
2000 h	5	5

Tested acc. to DIN EN ISO 16474-2 in water based automotive system. Rating with gray scale in acc. to DIN EN ISO 20105-A02: 1=poor, 5=excellent.

Application Profile	
Automotive coatings	
Industrial coatings	+++
Decorative coatings	
Coil coatings	+++
Powder coatings	
+++ Excellent choice ++ Good choice + Possible choice	

Packaging and Handling	
Packaging	15 kg paper bags
Packaging	Different types of packaging are available on request.