

Sudafast™ Yellow 166D

Pigment for Inks

Product Description

Sudafast Yellow 166D is transparent reddish yellow pigment. It exhibits high strength, gloss, transparency and overall fastness properties.

Product Information

Chemical Type	Disazo	CAS NO.	5567-15-7
C. I. Name	Pigment Yellow 83	EINECS / ELINCS NO.	226-939-8
C. I. Constitution No.	21108	Physical Appearance	Yellow powder

Application Profile

Sheetfed Ink	○	Vinyl Ink	●
Silkscreen Ink	○	Water Base Ink	--
Metal Decorative Ink	○	CLPP Base Ink	●
Polyamide Base Ink	●	PU Ink	●
NCPU Ink	●	NCPA Ink	●

● Recommend | ○ Potential Use | -- Not recommended

Technical Performance

Heat Stability	Soap Fastness		Full Shade	Tint
180°C	5	Weather Resistance	-	-
		Light Fastness	6	5

Physical Properties

Oil Absorption	51 ± 5%	Bleeding in Xylene	3-4
Specific Gravity	1.20 ± 0.2	Bleeding in Methyl Ethyl Ketone	4
Bulk Density (g/ml)	0.20 ± 0.1	Bleeding in Ethyl Acetate	3-4
pH Value	6 - 9	Bleeding in Cellosolve	3-4
Volatile Matter	1.5% max	Bleeding in Mineral Turpentine	4-5
Resistance to Acid	3	Specific Surface Area (m ² /g)	37 ± 5
Resistance to Alkali	4	Average size of Primary Particle (nm)	-

- ✓ **Light fastness:** Light fastness rating is assessed on 1 to 8 Blue Wool scale where 1 = 'Poor' and 8 = 'Excellent'.
- ✓ **Weather fastness:** Weather fastness rating is assessed on 1 to 5 Grey scale where 1 = 'Poor' and 5 = 'Excellent'.
- ✓ **Heat stability:** Heat stability values given indicate the maximum temperature at which the pigments can be stored for 10 min. in the full shade and in reductions without undergoing any significant change in shade.
- ✓ **Soap Fastness:** The Soap Fastness is assessed on 1 to 5 Grey scale where 1 = 'Poor' and 5 = 'Excellent'.
- ✓ **Oil absorption:** The oil absorption is determined on the basis of EN ISO 787-5 and given in linseed oil per 100 gm pigment.
- ✓ **Solvent bleeding:** The bleeding in solvents is tested using the powder grades and the visual rating given on 1 to 5 Grey scale where 1 = 'Heavy bleeding' and 5 = 'No bleeding'.

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. 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.

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