



# SUBH CHEM

VISHNU CHIRANIA: 91-9722035637, 91-9929555888.

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## Solvent Dyes (Metal Complex):

These Solvent dyes are brilliant metal complex dyes with good solubility in cello solve and in many other solvents. **Metal Complex dyes** are particularly suitable for the production of transparent and lightfast shades in general coating and printing inks.

### Physical Properties:

Solution of **Metal Complex Solvent dyes** behave like colloidal systems. The solubility values are only a guide, reached under specific conditions.

The solubility & fastness to certain chemicals and food-stuffs is shown in the charts.

The heat resistance of a dye depends to a great extent on the nature of the medium and on the length of time it is heated. If the medium itself turns yellow, the lacquer color will change even through the dye itself is fairly stable: the effect is most noticeable in the case of blue dyes, which may appear markedly greener.

The light fastness of a shade depends not only on the dye used but also on the nature of the vehicle. The concentration of the dye also has an influence.

## Application:

**Metal Complex Solvent dyes** are suitable for use in transparent lacquers, flexographic and gravure printing inks, wood stains; for coloring anodized aluminum and plastics such as cellulose nitrate, cellulose acetate and polyester resins.

The coloration of nitrocellulose lacquers for producing transparent shades on metalized polyester film & metal foil constitutes an important field of application for Metal Complex Solvent dyes. These dyes are by nature suitable for a variety of applications in many others binder systems such as vinyl resins, alkyd melamine baking enamels, shellac resins and acrylic resins.

### Note :

Indications of suitability of the dyes for particular applications are based on our own tests and knowledge of actual practice.

An indication of suitability for particular purpose does not indicate that the dyes will always meet the varied requirements. It must also be borne in mind that processing conditions play an important part and it is essential that the user should test the suitability of the dye for his particular process.



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We Offer the following Metal Complex Solvent Dyes:

Metal Complex Solvent Soluble Dyes			Solubility (GMS/LTR)											Resistance to Chemicals & Foodstuff***									
5%	1%	Product	Light Fastness**	Methyl Ethyl Ketone (MEK)	Metyl ISO-Butyl Ketone(MIBK)	Acetone	Ethyl Acetate	Diacetone Alcohol (DAA)	Butyl cellosolve	Ethyl cellosolve	Ethanol	Methoxy Propanol	Toluene	Caustic Soda	Acetic Acid	Lactic Acid	Butter / Margarine	Paraffin Wax	Soap	Water 80°C, 30 Min	Water Biol. 30 min	Coconut Oil	Cheese
		<b>Yellow R</b> *Yellow 82	6-7	300	200	400	250	400	400	400	100	50	50	5	5	5	5	5	4-5	5	5	5	5
		<b>Yellow GL</b> *Yellow 90	7	20	10	450	10	400	400	400	50	250	TR	5	5	5	5	5	4-5	5	5	5	5
		<b>Golden Yellow</b>	6	350	270	400	250	400	400	400	100	50	30	5	5	5	5	4	4	5	5	5	5
		<b>Orange RL</b> *Orange 58	6	400	100	400	100	400	400	400	200	450	TR	5	5	5	3	5	2-3	5	5	3	3
		<b>Orange R</b> *Orange 99	6	400	400	450	100	400	400	400	150	200	TR	5	5	5	4	4	4	3	3	5	4-5



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		<b>Fire Red G *Red 119</b>	6	100	50	150	20	150	150	150	20	200	TR	5	4	5	3	5	3	5	5	5	4
		<b>Red 2BL *Red 132</b>	7	300	100	400	50	400	350	350	100	250	TR	5	4	5	2	5	2-3	5	5	5	4
		<b>Red GB *Red 160</b>	4-5	150	200	150	100	125	250	250	10	200	TR	5	4	5	3-4	5	3-4	5	4-5	4	4
		<b>Red B *Red 122</b>	6	400	300	400	100	400	400	400	150	200	TR	5	4	5	5	5	4	3	4-5	5	5



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		<b>Pink 5BLG</b> *Red 127	3	20	20	25	20	100	100	100	20	300	TR	4-5	5	5	3-4	5	4-5	3	3	4-5	3
		<b>Blue 2GLN</b> *Blue 48	6-7	75	10	25	10	100	100	100	100	120	TR	5	3-4	5	3-4	5	1-2	5	5	3-4	5
		<b>Black RE</b> *Black 27	6-7	300	300	450	150	150	450	450	100	200	TR	5	5	5	5	5	5	5	5	5	4
		<b>Black RL</b> *Black 29	6	300	200	400	100	400	400	400	50	250	TR	5	5	5	5	5	5	5	5	5	4
		<b>Green GL</b>	6	175	100	125	100	250	250	250	100	100	TR	5	4	4	4-5	4	2-3	5	5	5	5



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		<b>Cadbury Violet</b>	5	35	15	25	10	100	75	75	75	150	TR	5	3-4	3-4	3-4	3-4	1-2	4	4	3-4	4-5
		<b>Brown 2RM</b>	5	150	150	400	75	400	400	400	100	200	TR	5	5	5	4	5	4	4	4	4	4
		<b>Dark Brown 5R</b>	6-7	200	250	400	300	400	400	400	100	300	TR	4-5	4-5	4-5	4-5	5	1	4-5	5	3-4	5

\*C.I. Solvent

\*\*Rating 8 represents highest fastness  
Rating 1 represents lowest fastness

The above solubility chart has been checked  
from particular batch. It may slightly vary from  
batch to batch

\*\*\*Rating 5 represents highest fastness  
Rating 1 represents lowest fastness