



Oil Colors Solubility (%) Chart

OIL COLORS			Solubility (gram/liter)									Fastness Properties				Registration	Heavy Metals		Safety (GDR)
Product Name	C.I. Name	C.I. No.	Methanol	Ethanol	Butanol	Acetone	Ethyl Acetate	MEK	Cyclohexanone	Toluene	Xylene	Lightfastness	Heat Resistance	Acid Resistance	Alkali Resistance		EN-71	CONEG	
YELLOW 3G	Solvent Yellow 16	12700	trace	trace	trace	15	25	25	70	45	45	4	B	A	A	X1	O	O	O
YELLOW GGS	Solvent Yellow 56	11021	trace	10	15	25	40	40	45	45	45	2	C	B	A	O	O	O	O
YELLOW 105			trace	trace	trace	trace	trace	trace	>300	20	trace	3	A	A	A	X1	O	O	O
YELLOW 107	Acid Yellow 42							<5	10	<5									
YELLOW 129	Solvent Yellow 29	21230	trace	trace	trace	15	20	160	260	>300	>300	4	A	A	A	O	O	O	O
ORANGE PS	Solvent Yellow 14	12055	trace	trace	trace	10	25	25	130	50	50	2	A	A	A	O	O	O	O
ORANGE 201			trace	trace	trace	trace	10	10	>300	35	10	4	A	A	A	O	O	O	O
RED RR	Solvent Red 24	26105	trace	trace	trace	10	trace	trace	10	10	10	3	A	A	A	O	O	O	X
RED MR	Solvent Red 25							<5	<5	<5									
RED 5B	Solvent Red 27	26125	trace	trace	trace	10	trace	10	40	30	30	3	A	A	A	O	O	O	O
RED OG	Solvent Red 1	12150	trace	trace	trace	trace	trace	trace	trace	trace	trace	2	A	A	A	O	O	O	X
RED XO	Solvent Orange 7																		
SCARLET 308	Solvent Red 18	21260	trace	trace	trace	15	trace	30	200	trace	trace	4	A	A	A	O	O	O	O
SCARLET 318	Solvent Red 18	21260	trace	trace	trace	trace	70	100	150	trace	50					O			O
VIOLET MVB-3	Solvent Violet 8																		
PINK 312	sm.l. Solvent Red 49		45	110	>300	40	40	20	15	40	40	3	A	A	A	O	O	O	O
BROWN BF								<5	<5	<5									
BROWN BB	Solvent Red 3	12010	trace	trace	trace	10	10	25	100	trace	trace	2	B	A	A	O	O	O	O
BROWN 416	Mixture	Mixture	trace	trace	trace	trace	15	10	>300	15	10	3	A	A	A	X1	O	O	O
GREEN 502	Mixture	Mixture	trace	trace	trace	25	40	40	120	35	40	3	A	A	A	O	O	O	O
GREEN 1	Basic Green 1															O			
BLUE 613	sm.l. Solvent Blue 5		>300	>300	>300	200	trace	260	35	trace	trace	3	A	A	A	O	O	O	O
BLUE 2N	Solvent Blue 35	61554	trace	trace	trace	trace	trace	trace	30	15	30	3	A	A	A	O	O	O	O
BLUE 650	Solvent Blue 70		trace		300		trace	200	>70	125	trace					O	O	O	O
BLACK HZ	Solvent Black 3	26150	trace	15	30	>300	trace	>300	>300	trace	trace	4	A	A	A	O	O	O	O
BLACK 860	Solvent Black 3	26150	trace	trace	20	>300	>300	>300	>300	>300	>300	4	A	A	A	O	O	O	O
BLACK BS	Solvent Black 7	504158	trace	120	35	trace	trace	trace	30	45	trace	4	A	A	A	O	O	O	O

Trace: less than 10 gr/L

Solubility tested by spotting method

NOTE: Rating of Fastness

Light Fastness 8=Excellent

8-Grade Scale 1=Poor

Heat Resistance 3-Grade Scale

Acid Resistance A=Excellent

Alkali Resistance B=Good

C=Poor

Registration (registration at JP, EU, US, CA, AU, KR, CN & PH)

- O: registered at every country
- X1: not registered in PH
- X2: not registered in AU, CA, KR, PH & US
- X3: not registered in EU & PH

Safety (GDR): German regulation of safety for daily goods (control azo dyes which may decompose a carcinogenic amine)

O: Conformed X: not conformed

Heavy Metal content:

O conformed

X: not conformed

EN-71: Safety regulation of toys in EU

Pb:<90ppm; As:<25ppm; Hg:<25ppm; Cd:<50ppm; Sb:<60ppm; Ba:<250ppm; Cr:<25ppm; Se:<500ppm;

CONEG: model toxics in packing registration

Pb+Hg+Cr(IV):<100ppm