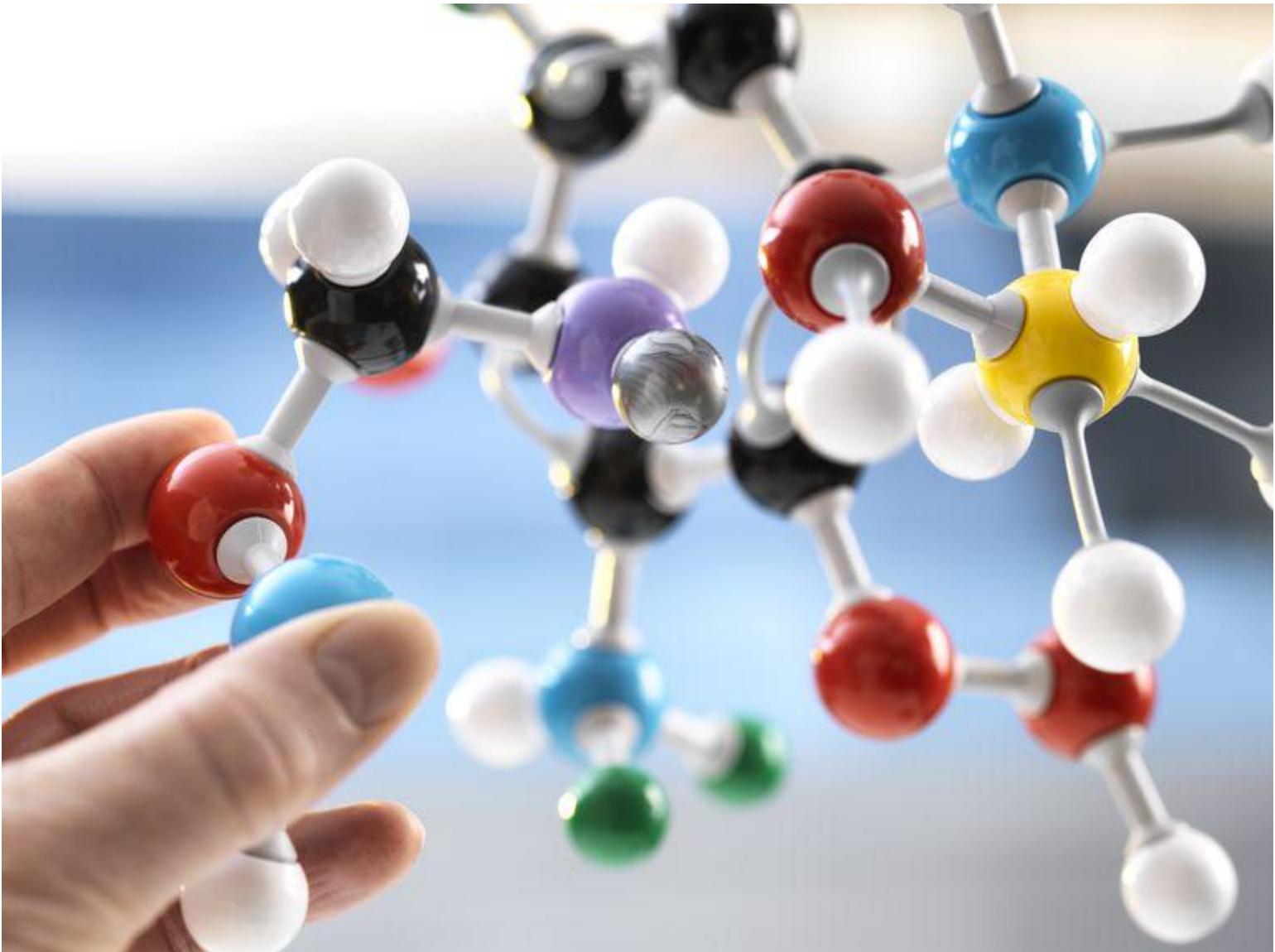


# Paper Dyestuffs Range



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**For additional technical service and/or laboratory assistance, contact your local STEINER representative**

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# Paper Dyestuffs Range

## CELLUSOL™ liquid and DIRECT™ powder

Direct dyes : anionic synthetic water soluble dyes.

This dye group is suitable for furnishes used in papermaking.

Good to very good resistance to fading, bleeding and chemicals,  
And in generally used in :

- Printing and writing papers
- Hygiene papers
- Paper board
- Corrugated case materials
- Special papers

## VISCOLOR/STENACOLOR™

Dispersion organic pigments in aqueous Anionic formulation

Specifications :

- Good outstanding resistance to fading, bleeding and chemicals
- Good to high lightfastness
- Brillante shade
- Shading white and fluorescent whitened papers

## BASIQUE™ Range

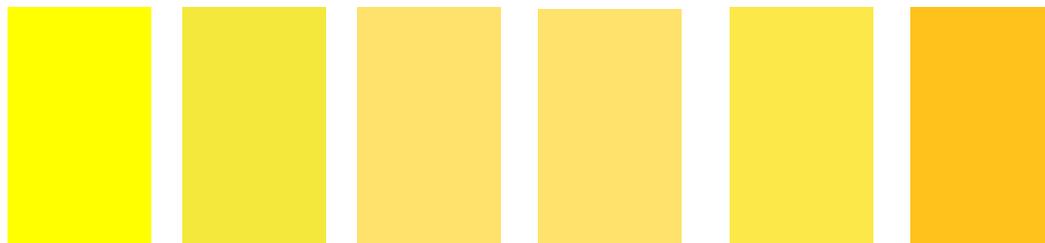
Basic dyes in acid acetic medium

- Tinting of newsprint and wood containing papers
- Coloration of waste-based packaging grades.
- Very economical and brilliant coloration process
- Poor lightfastness

## Liquid Direct Dyes

### Anionic

(1% Dye)



STEINER Trade Name	CELLUSOL YELLOW 6J	CELLUSOL YELLOW 3J	CELLUSOL YELLOW J	CELLUSOL YELLOW J-R	CELLUSOL YELLOW 2GL	CELLUSOL YELLOW RA-F
L*	92,51	90,33	88,40	88,40	87,3	81,75
a*	-10,44	-2,84	1,47	1,82	0,12	15,86
b*	52,88	61,13	72,45	72,24	66,25	60,55
Lightfastness	3-4	3-4	2-3	2-3	4-5	2
Backwater	4	3-4	2-3	2-3	4	3
Waterfastness	4	4	4-5	4-5	5	5
Alcohol fastness	5	2	3	3	3	4-5

### Anionic

(1% Dye)



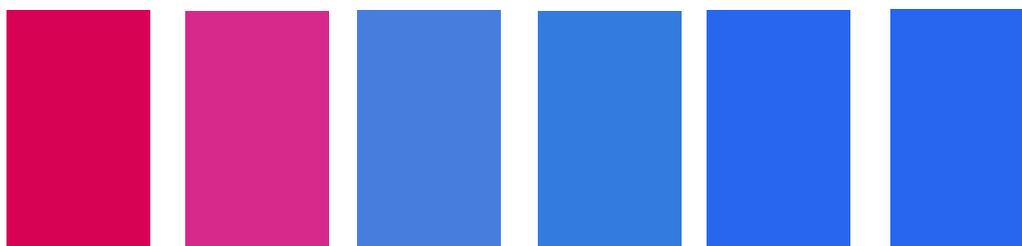
STEINER Trade Name	CELLUSOL ORANGE GGL	CELLUSOL BROWN N-2R	CELLUSOL ORANGE P2RN	CELLUSOL ORANGE WSN	CELLUSOL SCARLET 2G	CELLUSOL RED 4GE 200%
L*	72,6	68,25	60,75	69,66	64,92	69,8
a*	20,4	28,35	59,25	44,05	45,10	41,1
b*	31,5	51,44	44,68	32,32	14,32	-6,4
Lightfastness	2-3	2	1-2	1-2	2	3
Backwater	3-4	4-5	4	4	4-5	4
Waterfastness	4-5	5	4-5	4-5	5	5
Alcohol fastness	3-4	5	3-4	4	4-5	3-4

# Cellusol™

## Liquid Direct Dyes

### Anionic

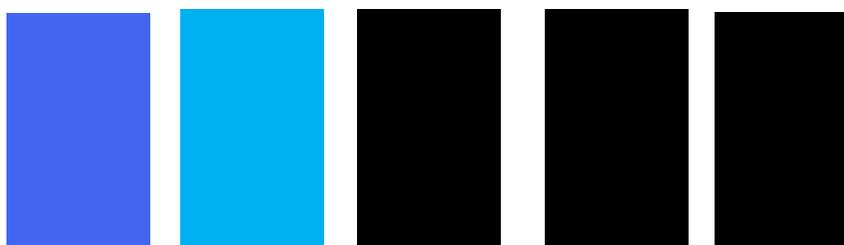
(1% Dye)



STEINER Trade Name	CELLUSOL RED EB 160	CELLUSOL RED 3B	CELLUSOL BLUE 2RD	CELLUSOL BLUE SP	CELLUSOL BLUE FFR	CELLUSOL BLUE WRC
L*	60,42	57,28	55,4	57,2	55,4	53,82
a*	40,15	44,54	-0,85	-2,4	1,25	0,64
b*	0,15	5,89	-21,70	-25,8	-20,81	-20,35
Lightfastness	2	3	2-3	1	2-3	2-3
Backwater	2	4	4-5	4	2-3	4-5
Waterfastness	4-5	5	4-5	5	4-5	4-5
Alcohol fastness	4-5	3-4	4	2	3	4

### Anionic

(1% Dye)



STEINER Trade Name	CELLUSOL BLUE BTS	CELLUSOL TURQUOISE R	CELLUSOL BLACK SP_1 80%	CELLUSOL BLACK VST	CELLUSOL BLACK PN
L*	62,15	72,92	53,6	54,6	53,2
a*	-9,22	-25,2	-1,4	-0,25	0,22
b*	-19,78	-24,75	-1,3	-0,40	0,15
Lightfastness	2	5	2-3	1-2	1-2
Backwater	4	2	3	4	4
Waterfastness	4-5	5	4-5	5	5
Alcohol fastness	4-5	5	2-3	3	3

# Direct™

## Powder Direct Dyes

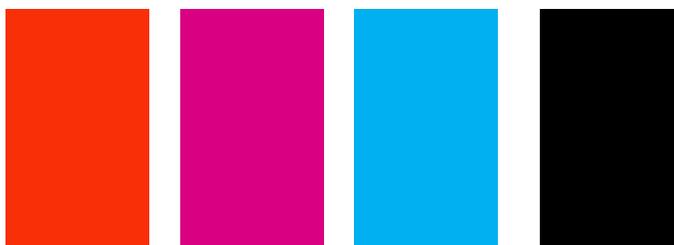


### Anionic (0,5% Dye)



STEINER Trade Name	DIRECT YELLOW P6J 250%	DIRECT YELLOW P3J 600%	DIRECT YELLOW A ocnc	DIRECT ORANGE P2RN
L*	93,55	90,5	88,40	81,30
a*	-10,68	-3,65	0,65	15,2
b*	57,22	60,78	62,45	57,85
Lightfastness	3	3	2-3	2
Backwater	3	2-3	2-3	4
Waterfastness	4	3-4	4-5	5
Alcohol fastness	2	2	3	5

### Anionic (0,5% Dye)



STEINER Trade Name	DIRECT SCARLET 4B	DIRECT RED 8B 166%	DIRECT TURQUOISE GRL 300%	DIRECT BLACK OB
L*	93,55	90,5	58,65	41,24
a*	-10,68	-3,65	-25,34	-2,95
b*	57,22	60,78	-28,74	-9,82
Lightfastness	3	3	3-4	2
Backwater	3	2-3	4-5	4
Waterfastness	4	3-4	5	5
Alcohol fastness	2	2	5	5

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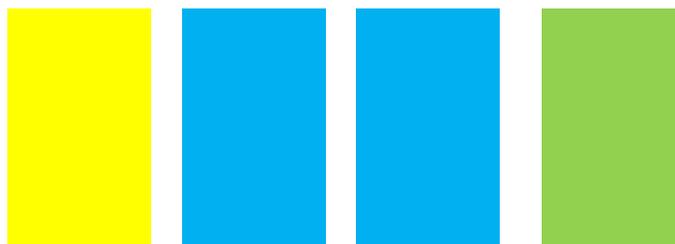
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## Liquid cationic Dyes

Cationic

(0,5% Dye)

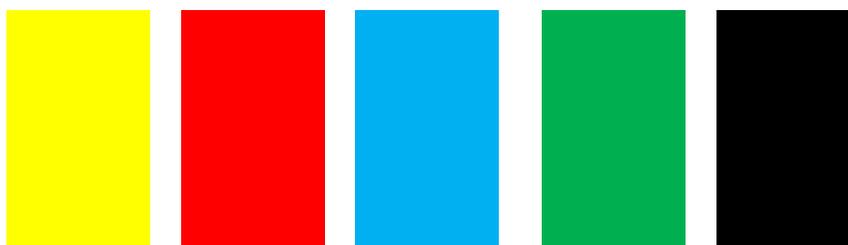


STEINER Trade Name	CELLUSOL YELLOW C-6Z	CELLUSOL TURQUOISE C-JL 66%	CELLUSOL TURQUOISE C-6G	CELLUSOL GREEN C-AL
L*	94,5	72,14	66,12	65,76
a*	-7,1	-24,8	-27,8	-39,4
b*	87,3	-23,4	-26,2	3,8
Lightfastness	3	4	4	3
Backwater	5	5	5	4-5
Waterfastness	5	5	5	5
Alcohol fastness	5	5	5	5

## Viscolor & Stenacolor

Anionic

(0,5% Dye)



STEINER Trade Name	VISCOLOR YELLOW HT	VISCOLOR RED 2B	VISCOLOR BLUE J	VISCOLOR GREEN NJ 25	VISCOLOR BLACK J
L*	94,5	72,14	66,12	65,76	
a*	-7,1	-24,8	-27,8	-39,4	
b*	87,3	-23,4	-26,2	3,8	
Lightfastness	3	3	7	7	7
Backwater	5	5	5	4-5	5
Waterfastness	5	5	5	5	5
Alcohol fastness	5	5	5	5	5