



Dyexcelon CN

Neutral-fixing Reactive Dyes

高溫型中性活性染料(不加純鹼)

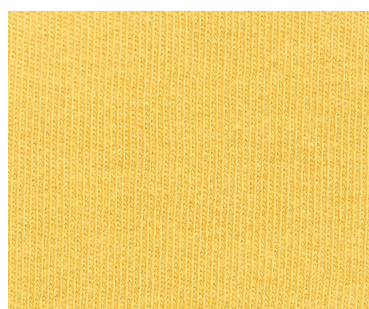
One-Bath Neutral dyeing of T/C blended and 100% cellulose fabrics

Dyeing cellulose at **high temperatures** (100~130°C) in **neutral*** (pH 7) solutions **without alkali**

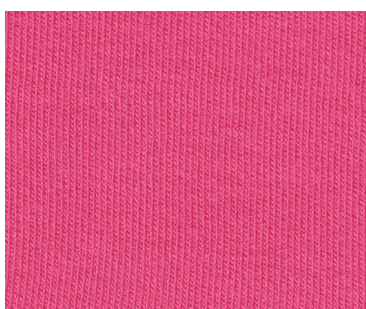
Dyexcelon CN colors

Yellow CN-4G	□ Red CN-3B	Blue CN-FL
□ Yellow CN-ML	Red CN-7B	Blue CN-BL
Yellow CN-EX(N)	Scarlet CN-GL	□ Blue CN-MG
Yellow CN-RL		Dark Blue CN-R
G. Yellow CN-GL		Turquoise CN-2G

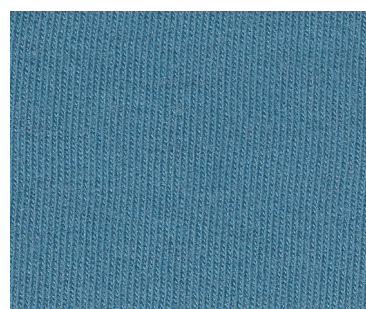
□ Recommended trichromatic combinations



Yellow CN-ML
2.0% o.w.f.

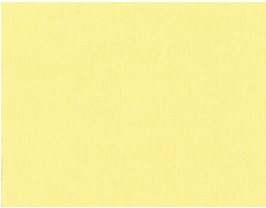
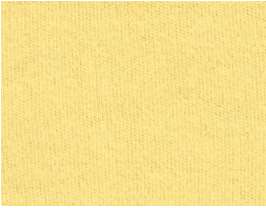
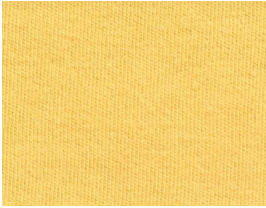
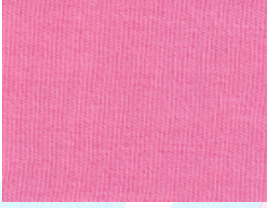
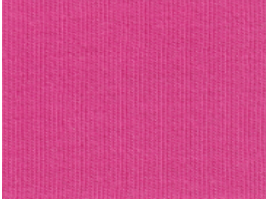
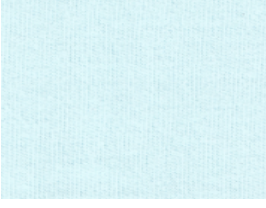
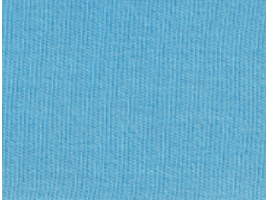


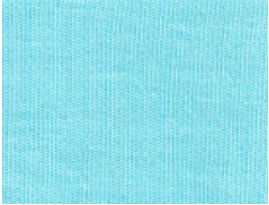
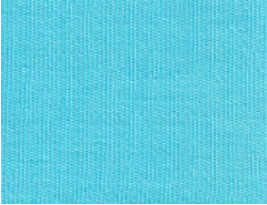
Red CN-3B
2.0% o.w.f.



Blue CN-MG
2.0% o.w.f.

***Dyexcel Buffer P7 1 g/L**

0.1%	0.5%	1.0%	2.0%	Dyexcelon
				Yellow CN-4G
				Yellow CN-ML
				Yellow CN-EX(N)
				Red CN-3B
				Red CN-7B
				Blue CN-FL
				Blue CN-BL
				Blue CN-MG

0.1%	0.5%	1.0%	2.0%	Dyexcelon
				Dark Blue CN-R
				Turquoise CN-2G

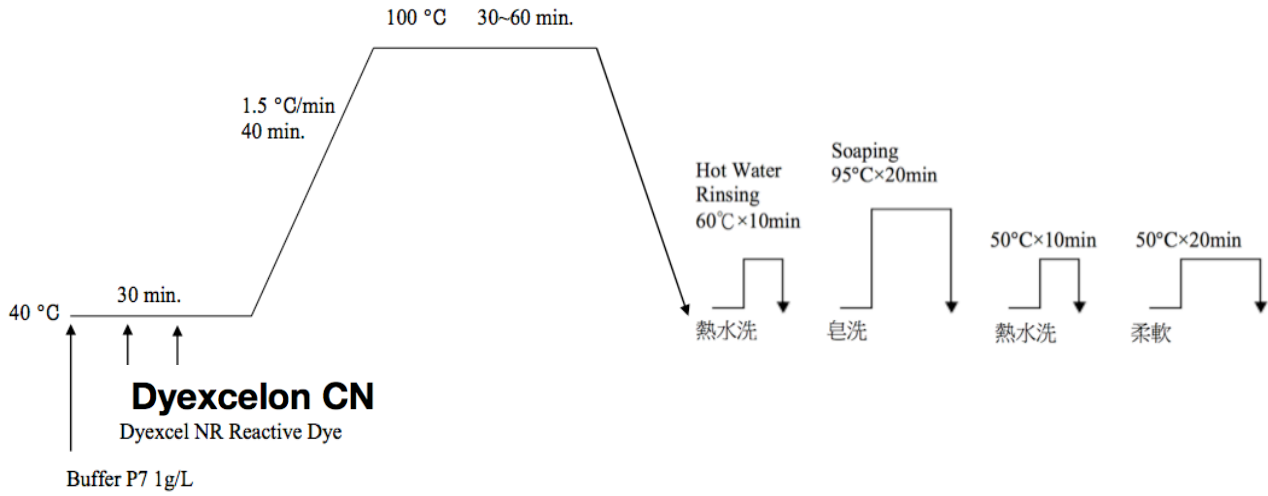
R&D Yellow CN-RL



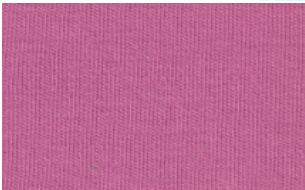
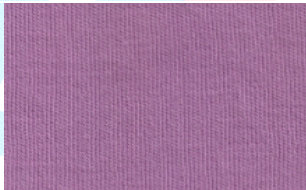
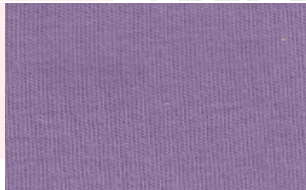
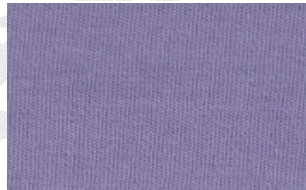
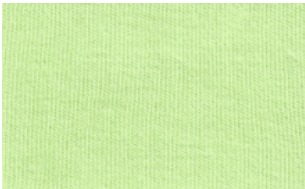
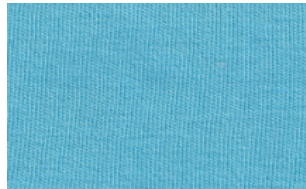
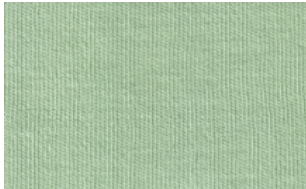
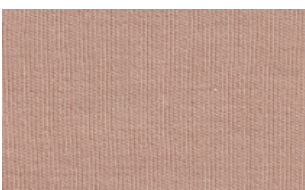
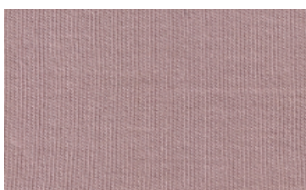
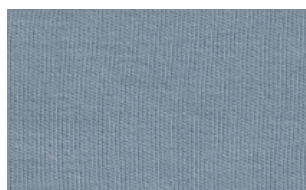
R&D Scarlet CN-GL

R&D Yellow CN-SL

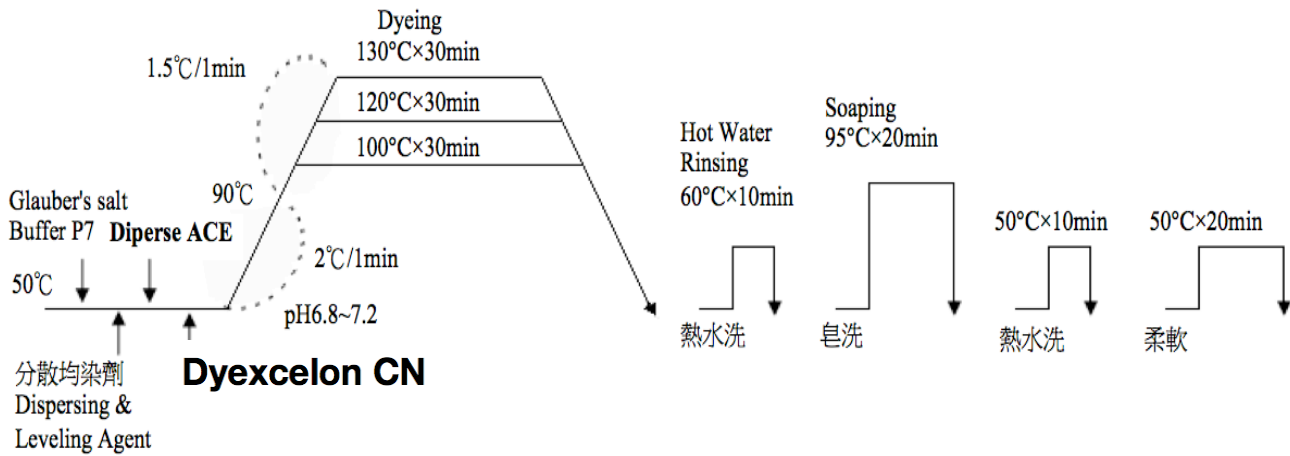
Procedure: High Temperature Neutral Dyeing of 100% Cotton



Combinations on 100% cotton

			
Y. ML 0.9%, R. 3B 0.1%	Y. ML 0.7%, R. 3B 0.3%	Y. ML 0.6%, R. 3B 0.4%	Y. ML 0.1% R. 3B 0.9%
			
R. 3B 0.9%, B. MG 0.1%	R. 3B 0.3%, B. MG 0.7%	R. 3B 0.5%, B. MG 0.5%	R. 3B 0.4%, B. BL 0.6%
			
Y. 4G 0.9%, Tq. 2G 0.1%	Y. 4G 0.7%, Tq. 2G 0.3%	Y. 4G 0.1%, Tq. 2G 0.9%	B. BL 0.2%, Tq. 2G 0.8%
			
Y. ML 0.9%, B. MG 0.1%	Y. ML 0.7%, B. MG 0.3%	Y. 4G 0.2%, Tq. 2G 0.5%, B.BL 0.5%	Y. ML 0.1%, B. MG 0.9%
			
Y. ML 0.7%, R. 3B 0.2%, B.MG 0.1%	Y. ML 0.54%, R. 3B 0.27%, B.MG 0.19%	Y. ML 0.25%, R. 3B 0.10%, B.MG 0.65%	Y. ML 0.21%, R. 3B 0.12%, B.MG 0.67%

Procedure: T/C (Tetoron/Cotton) One Bath Dyeing 滌/棉 一浴染色

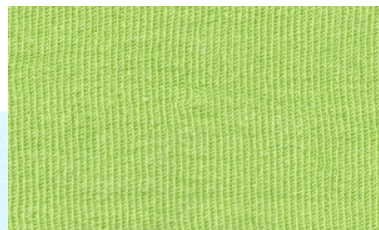


Combinations on T/C blend

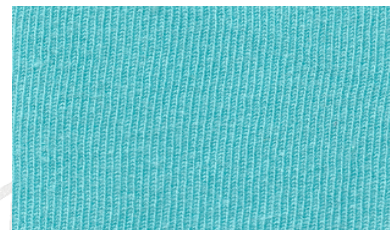
(# Disperse dyes/ Dyexcelon CN reactive dyes)



Y. 4GL 0.50% / Y. 4G 0.60% #



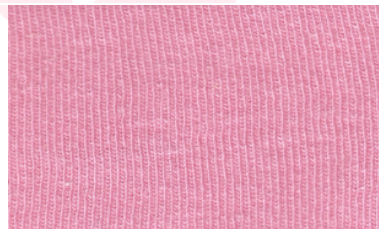
Y. 4GL 0.40% / Y. 4G 0.72%
B. BGL 0.10% / Tq. 2G 0.12%



Y. 4GL 0.01% / Y. 4G 0.02%
B. BGL 0.25% / Tq. 2G 0.45%



Y. ACE 0.04% / Y. 4G 0.06%
R. ACE 0.15% / R. 3B 0.20%



Y. ACE 0.01% / Y. 4G 0.02%
R. ACE 0.29% / R. 7B 0.30%



Y. ACE 0.20% / Y. 4G 0.24%
R. ACE 0.06% / R. 7B 0.12%
B. ACE 0.04% / B. FL 0.06%



Y. ACE 0.04% / Y. ML 0.06%
R. ACE 0.06% / R. 3B 0.08%
B. ACE 0.24% / B. MG 0.30%



Y. ACE 0.02% / Y. 4G 0.04%
R. ACE 0.06% / R. 7B 0.08%
B. ACE 0.22% / B. FL 0.30%



Y. ACE 0.19% / Y. ML 0.20%
R. ACE 0.09% / R. 3B 0.10%
B. ACE 0.02% / B. MG 0.06%

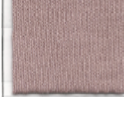
Recommended Disperse Dye

□ Disperse ACE series

(Disperse Yellow ACE, Disperse Red ACE, Disperse Blue ACE and so no.)

□ Or other disperse dyes suitable for polyester/cellulose blend

Step Dyeing Test

Brown		Depth %	
40°C		23	18
30 m			
50°C		27	21
10 m			
60°C		34	31
10 m			
70°C		47	47
10 m			
80°C		68	68
10 m			
90°C		84	82
10 m			
100°C		100	100
30 m			
110°C		99	100
10 m			
110°C		100	100
20 m			
110°C		100	100
30 m			

Commercial dye

(Left)

Yellow 0.52%
 Red 0.26%
 Blue 0.20%

Dyexcelon
CN

(Right)

Y. ML 0.53%
 R. 3B 0.27%
 B. MG 0.20%

Grey		Depth %	
40°C		17	14
30 m			
50°C		31	31
10 m			
60°C		35	34
10 m			
70°C		52	52
10 m			
80°C		67	68
10 m			
90°C		77	83
10 m			
100°C		92	94
30 m			
110°C		96	100
10 m			
110°C		97	100
20 m			
110°C		100	100
30 m			

Commercial dye

(Left)

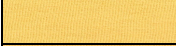
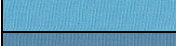
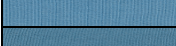
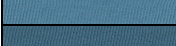
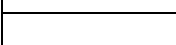
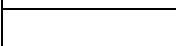
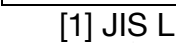
Yellow 0.23%
 Red 0.12%
 Blue 0.65%

Dyexcelon
CN

(Right)

Y. ML 0.24%
 R. 3B 0.11%
 B. MG 0.65%

Properties and Fastness

Shade	Dyexcelon CN Reactive dyes	%o.w.f.	Solubility 50°C (g/L)	Light [1]	Wash 50°C [2]	Affinity
	Yellow CN-4G	2	70	5	5	C
	Yellow CN-ML	2	70	5	5	B
	Yellow CN-EX(N)	2	80	5	4-5	B
	Red CN-3B	2	60	4	5	B
	Red CN-7B	2	70	4	3-4	B
	Blue CN-FL	2	70	5	4-5	C
	Blue CN-BL	2	60	5	4-5	C
	Blue CN-MG	2	60	4-5	4	B
	Dark Blue CN-R	4	70	3-4	4	A
	Turquoise CN-2G	2	70	4	3-4	C
	Yellow CN-RL	2	50	5	4-5	A
	G. Yellow CN-GL	2	50	5	4-5	B
	Scarlet CN-GL	2	70	4-5	4-5	C

[1] JIS L 0842 Carbon-arc

[2] JIS L 0844 A-4 Change in shade

Glauber's salt recommendation 元明粉建議使用量 (On Non-mercerized Cotton 無絲光棉)

Liquor ratio above 20:1

Dye	%	0.1~0.3	0.3~0.5	0.5~0.7	0.7~1.0	1.0~1.5
Salt	g/L	10~15	15~20	20~25	25~30	30~40
Dye	%	1.5~2.0	2.0~2.5	2.5~3.0	3.0~3.5	3.5~4.0
Salt	g/L	40~45	45~50	50~55	55~60	60~70

極品化學科技股份有限公司
DXCEL CHEMICAL INDUSTRIAL CO.



NO.14 CHIH-KHEN 5TH RD., KUAN-YIN INDUSTRIAL ZONE, TAO-YUAN CITY,
TAIWAN, R.O.C.

桃園市觀音區觀音工業區經建五路 14 號

TEL: 886-3-4836008 FAX: 886-3-4836018

EMAIL: dyexcel.dci@msa.hinet.net

Data are tested in lab condition, only for your reference. Due to differences in computer monitors and screen resolution, the colors will vary.