

alfaKimya 

DISPERSE DYES

Alfa Kimya San. ve Tic. A.S.

profile Company



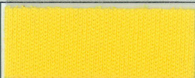
Alfa Kimya joined the "World of Textiles" in the year 1983. Young indeed; yet soon it captured the flag in the run for quality & trust, which, definitely is of prime concern in the textile sector's domestic and universal evaluation. Now, the name denotes a well known "Mark" that mark quality and creditability at all markets. Well known trade marks of the textile world prefer to use this Company products for processing, dyeing and finishing works to get the best results in full confidence and reliance.

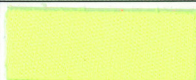
We are discriminative searchers for excellence in quality, economy and efficiency in our products. Furthermore, each and every challenging quest aiming "success" against the "tough" is admired by the executive team at Alfa Kimya Co.

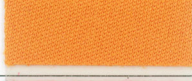
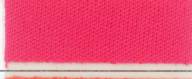
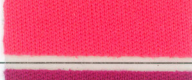
We are persuaders of innovation, where ever it is; we follow up alterations, progress, developments that will carry us and our clients to better futures. Our laboratories will be willing to co-operate with our customers to meet their needs and specific demands to produce economic and repeatable formulas and solutions.

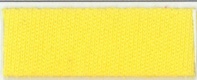
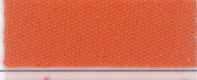
The basic factors of our production system is :

- Using synergetic materials;
- Efficiency;
- Reliability;
- Ecological Product Planning,
- High quality;
- Co-operation;
- Research & Development;
- Communication;
- Co-ordination.

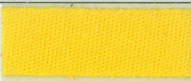
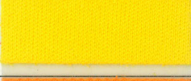
Numerical order	alfaKimya 		Depth o.w.f. %	C.I.No.	Classification	pH Range	Dyeing Properties				Dyeing fastness			
	Name of Products	Color Sample					High Temperature	Thermosol	Printing	Yarn Dyeing	Light(Xenon)	Washing CH	Sublimation CH	Rubbing Dre wet
E-type Trichromatic Shades														
01	Synchron Yellow 3-GE 200%		0.8	Y 54	E	3-9	☉	△	△	○	6	4-5	4	4-5 4-5
02	Synchron Red FB 200%		0.8	R 60	E	3-9	☉	△	△	○	6	4-5	4	4 4
03	Synchron Blue FBL		1.5	B 56	E	3-9	☉	△	△	○	6-7	4-5	4-5	4 4
SE-type Trichromatic Shades														
04	Synchron Yellow 4G 200%		0.5	Y 211	SE	4-7	☉	△	☉	△	6	4-5	4	4-5 4-5
05	Synchron Rubine G-FL 200%		1.0	R 73	SE	4-8	☉	△	△	○	6	4-5	4	4-5 4-5
06	Synchron Blue RSE 200%		0.8	B 183:1	SE	4-7	☉	△	☉	○	5	4-5	4	4-5 4-5
S-type Trichromatic Shades														
07	Synchron Orange 2R-FS 150%		1.5	O 30	S	4-7	☉	☉	☉	☉	6-7	4-5	4-5	4-5 4-5
08	Synchron Red 3BLS 150%		1.5	R 167	S	3-6	☉	☉	☉	☉	6-7	4-5	4-5	4-5 4-5
09	Synchron Navy Blue R-FL 200%		1.5	B79	S	4-6	☉	☉	☉	☉	4	4	4-5	4-5 4-5

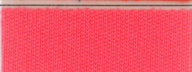
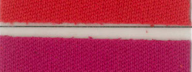
Numerical order	alfaKimya 		Depth o.w.f. %	C.I.No.	Classification	pH Range	Dyeing Properties				Dyeing fastness			
							High Temperature	Thermosol	Printing	Yarn Dyeing	Light(Xenon)	Washing	Sublimation	Rubbing
	CH	CH										Dre wet		
Fluorescent Series Disperse Dyes														
10	Synchron F.Yellow 10G		1.0	Y 184	S	3-6	⊙	△	⊙	△	5	4	4	4-5 4-5
11	Synchron F.Yellow 8GFF		1.0	Y 82	SE	4-6	⊙	⊙	⊙	○	4	4-5	4-5	4-5 4-5
12	Synchron Neon Red G.BB 200%		1.0	R 277	SE	4-6	⊙	⊙	⊙	△	4-5	4-5	4-5	4 3-4
13	Synchron Brill. Pink FBS		1.0	R 362	SE	4-6	⊙	○	⊙	○	5	4-5	4	4-5 4-5

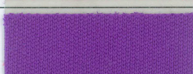
Numerical order			Depth o.w.f. %	Dyeing fastness				Dyeing Properties				
	Name of Products	Color Sample		Fastness to light	Washing Fastness	Sublimation	Rubbing Fastness		Exhaustion	Continuous process	Printing	Microfiber dyeing
							Dre	Wet				
High Washing fastness Disperse Dyes												
14	Intrasil Flavine HSF		0.45	6-7	5	5	5	4-5	○	○	○	○
15	Intrasil Golden Yellow HSF		1.0	6	4-5	4-5	4-5	4-5	○	○	○	○
16	Intrasil Yellow Brown HSF 01		1.0	6-7	5	4-5	4-5	4-5	○	○	○	○
17	Intrasil Pink HSF		0.5	5-6	4	4	4-5	4-5	○	△	○	○
18	Intrasil Scarlet HSF-N		1.0	5-6	4-5	4-5	4-5	4-5	○	○	○	○
19	Intrasil Red HSF 01		2.0	5-6	5	4-5	5	5	○	○	○	○
20	Intrasil Rubine HSF 01		1.5	6	5	4-5	5	5	○	○	○	○
21	Intrasil Turquoise HSF 01		2.0	7	4-5	4-5	5	4-5	○	○	○	○
22	Intrasil Blue HSF 01		2.0	6	5	4-5	5	5	○	○	○	○
23	Intrasil Navy HSF-N		3.0	6	4-5	4-5	5	4-5	○	○	○	○
24	Intrasil Black HSF 01		5.0	6	4-5	4-5	5	4-5	○	○	○	○

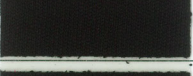
Numerical order	alfaKimya		Depth o. w. f. %	Light Fastness (Xenon)	Washing Fastness M&S C4A	AATCC 61 2A	Perspiration	Sublimation	pH scope
	Name of Products	Color Sample							
Superior Wet Fastness Disperse Dyes									
25	Serilene Yellow SWF		0.45	6–7	5	5	5	4–5	4–6
26	Serilene Gold Yellow SWF–N		1.30	6–7	4–5	5	5	4–5	4–6
27	Serilene Orange SWF		1.80	6–7	4–5	4–5	5	4–5	4–5
28	Serilene Yellow Brown SWF		2.10	7	4–5	4–5	5	4–5	4–5
29	Serilene Brill Scarlet SWF		1.65	5–6	4–5	4–5	4–5	4–5	4–5
30	Serilene Scarlet SWF		1.80	5–6	4–5	5	5	4–5	4–6
31	Serilene Red SWF		2.00	5–6	4–5	5	5	4–5	4–6
32	Serilene Deep Red SWF		1.30	7	4–5	4–5	5	4–5	4–5
33	Serilene Rubine SWF		1.20	7	4–5	4–5	4–5	4–5	4–4.5
34	Serilene Violet SWF		2.00	6–7	4–5	4–5	4–5	4–5	4–4.5
35	Serilene Turquoise SWF		2.00	7	4–5	5	5	4–5	4–6
37	Serilene Royal Blue SWF–B		1.90	7	4–5	4–5	5	4–5	4–4.5

[illegible]

Numerical order			Depth o.w.f. %	C.I.No.	Classification	pH Range	Dyeing Properties				Dyeing fastness			
							High Temperature	Thermosol	Printing	Yarn Dyeing	Light(Xenon)	Washing	Sublimation	Rubbing
	Name of Products	Color Sample										CH	CH	Dre wet
Fluorescent Series Disperse Dyes														
40	Syncron Yellow G 200%		1.0	Y 3	E	4-7	⊙	△	○	△	6	4	3	4 4
41	Syncron Yellow 6-GSL 200%		1.5	Y 114	S	4-7	⊙	⊙	⊙	⊙	6-7	4-5	4-5	4-5 4-5
42	Syncron Yellow C-5G 200%		1.0	Y 119	SE	3-6	⊙	○	○	○	6-7	4-5	4-5	4-5 4-5
43	Syncron Orange H-3R 200%		0.5	O 25	E	3-9	⊙	△	△	⊙	5-6	4	3-4	4-5 4
44	Syncron Orange GL 200%		1.0	O 29	SE	4-9	⊙	△	△	△	7	4	4-5	4-5 4
45	Syncron Orange S-3RFL		1.0	O 44	S	3-9	⊙	⊙	⊙	△	6-7	4-5	4-5	4-5 4-5
46	Syncron Orange G-SF 200%		1.0	O 73	S	3-9	⊙	⊙	⊙	△	6-7	4-5	4-5	4 4
47	Syncron Brown 3R 150%		1.5	Br 1	S	4-6	⊙	⊙	⊙	⊙	5	5	5	5 5
48	Syncron Brown S-3RL		1.0	Mix	S	4-6	⊙	⊙	△	△	5	4	4-5	4 4-5
49	Syncron Brown S-2BL 150%		1.0	Mix	S	4-6	⊙	⊙	△	△	5	4	4-5	4 4-5
50	Syncron Scarlet B 200%		1.0	R 1	E	4-7	⊙	○	○	○	4-5	4-5	4	5 5
51	Syncron Rubine B 200%		1.0	R 13	E	4-9	⊙	△	○	△	4-5	4	4	4 3-4

Numerical order			Depth o.w.f. %	C.I.No.	Classification	pH Range	Dyeing Properties				Dyeing fastness			
	Name of Products	Color Sample					High Temperature	Thermosol	Printing	Yarn Dyeing	Light(Xenon)	Washing CH	Sublimation CH	Rubbing Dre wet
52	Sincron Scarlet 2GH 200%		0.8	R 50	E	3-9	⊙	○	○	○	5-6	4-5	4	4-5 4
53	Sincron Scarlet S-3GFL 200%		1.5	R 54	S	4-7	⊙	⊙	⊙	⊙	6-7	4-5	4	4-5 4
54	Sincron Red S-BWFL		1.5	R 74	S	4-6	⊙	⊙	⊙	○	4-5	4-5	4	4-5 4-5
55	Sincron Red SE-3B 200%		1.0	R 82	S	4-6	⊙	○	○	○	6-7	4	4	4 4
56	Sincron Red REL 200%		1.0	R 91	SE	4-7	⊙	⊙	○	○	7	3-4	3	4-5 4-5
57	Sincron Red BEL 200%		1.5	R 92	SE	4-7	⊙	○	⊙	○	6-7	4-5	4-5	4-5 4-5
58	Sincron Scarlet BB 200%		1.0	R 152	S	4-8	⊙	⊙	⊙	○	5-6	4-5	4-5	4-5 4-5
59	Sincron Scarlet GS		1.0	R 153	SE	3-9	⊙	○	⊙	○	5	4	4	4 3-4
60	Sincron Red 3BLS Cons		1.0	R 167	S	3-6	⊙	⊙	⊙	⊙	6-7	4-5	4-5	4 4-5
61	Sincron Red FRL 200%		1.0	R 177	S	4-6	⊙	⊙	⊙	○	5-6	4	4-5	4-5 4-5
62	Sincron Rubine BSF		1.0	R 179	S	3-9	⊙	⊙	○	○	6	4	4-5	4-5 4-5
63	Sincron Red 3BS 150%		1.0	R 343	S	4-9	⊙	○	○	○	5-6	4-5	4-5	4 4
64	Sincron Violet 2R 200%		1.0	V 1	S	4-6	⊙	⊙	⊙	○	3-4	4	4-5	4-5 5

Numerical order	alfaKimya		Depth o.w.f. %	C.I.No.	Classification	pH Range	Dyeing Properties				Dyeing fastness			
							High Temperature	Thermosol	Printing	Yarn Dyeing	Light(Xenon)	Washing CH	Sublimation CH	Rubbing Dre wet
	Name of Products	Color Sample												
65	Syncron Violet FBL 150%		1.0	V 26	S	3-9	⊙	⊙	⊙	○	6-7	4-5	4-5	4-5
66	Syncron Violet CBL		1.0	V 31	S	3-9	⊙	⊙	⊙	○	6-7	4-5	4-5	4-5
67	Syncron Rubine CBSF 200%		1.8	V 33	SE	3-7	⊙	○	○	○	6	4	4	4-5
68	Syncron Violet S-3RL 200%		0.5	V 63	S	4-9	⊙	⊙	⊙	○	6	4-5	4-5	4-5
69	Syncron Violet BB 300%		1.0	V 93	S	4-8	⊙	⊙	△	△	6-7	4-5	3-4	4
70	Syncron Blue BNN		4.0	B 3	S	4-6	⊙	○	×	○	6	5	5	5
71	Syncron Blue BG 200%		1.0	B 60	S	3-7	⊙	⊙	⊙	○	6-7	4-5	4-5	4-5
72	Syncron Blue S-BGL 200%		1.0	B 73	S	3-9	⊙	⊙	△	○	7	5	5	3-4
73	Syncron Blue BGF 200%		1.0	B 87	S	4-6	⊙	⊙	⊙	○	6	5	5	4
74	Syncron Dark Blue 3RT 200%		1.5	B 148	SE	4-7	⊙	△	○	△	5-6	4	4	4
75	Syncron Blue BBLS 200%		1.0	B 165	S	4-7	⊙	△	△	△	6	4-5	4-5	4
76	Syncron Blue CRE 200%		1.0	B 366	SE	4-6	⊙	△	△	△	5-6	4	4	4-5
77	Syncron Blue K-FBL		1.0	Mix	SE	4-6	⊙	△	△	△	5-6	4	4	4-5

Numerical order			Depth o.w.f. %	C.I.No.	Classification	pH Range	Dyeing Properties					Dyeing fastness		
	Name of Products	Color Sample					High Temperature	Thermosol	Printing	Yarn Dyeing	Light(Xenon)	Washing	Sublimation	Rubbing
												CH	CH	Dre wet
78	Synron Navy Blue ECO 300%		1.0	Mix	SE	3-9	☉	△	×	△	4-5	4	4	4-5 4-5
79	Synron Green C6B		2.0	G 9	SE	3-7	☉	○	○	○	5-6	4-5	4	4-5 4
80	Synron Yellow Brown TWS		1.0	Mix	S	4-7	☉	☉	☉	☉	6-7	4-5	4-5	4-5 4-5
81	Synron Rubine TWS		1.0	Mix	SE	4-9	☉	△	△	×	6	4	4	4-5 4-5
82	Synron N.Blue TWS		1.0	Mix	SE	3-9	☉	△	×	△	4-5	4	4	4-5 4-5
83	Synron Black GI 200%		5.0	Mix	S	4-6	☉	☉	☉	○	5-6	4-5	4	4-5 4-5
84	Synron Black S-HBL		8.0	Mix	S	4-6	☉	☉	☉	○	5-6	4	4-5	4 3-4
85	Synron Black ECO 300%		6.0	Mix	SE	3-9	☉	○	×	△	5-6	4	3-4	4 4
86	Synron Black ECO-R		6.0	Mix	SE	3-9	☉	○	×	△	5-6	4	3-4	4 4
87	Synron Black CERN 330%		6.0	Mix	SE	3-9	☉	○	×	△	5-6	4	3-4	4 4

Dyeing of Polyester and its Blendes

Loading → Desizing, Scouring → Drying
→ Presetting → Weight-reduced →
Process → Dyeing(or Printing) → Heat-setting
→ Finishing

Desizing, Scouring

Object: Desizing and Scouring are to remove the spinning oil, desizer in the fabric and machine oil stain during the process of spinning.

Recipe:	Detergent	0.25g/L
	Soda Ash	2g/L
	Caustic soda(33° Be')	2g/L
	Hydros	1g/L
	LR	1:10
	Temperature	80°C
	Time	20mins

Presetting

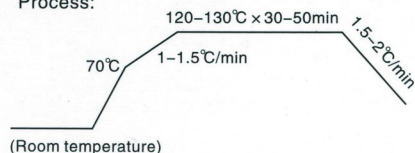
Object: Pre-setting is to stabilize the width size and maintain the soft handle of the polyester fabric, thus leading to a higher dyeing performance.

Recipe:	Temperature	180–210°C
	Time	30"–45"
	Over-feeding	Around 10%

Weight-reduced process (Optional)

Object: Polyester can be weight-reduced to improve the soft handle, elasticity and the performance of absorbing moisture and perspiration under strong caustic condition.

Process:



Remark: A complete washing and neutralizing is to recommended to improve the dyeing performance.

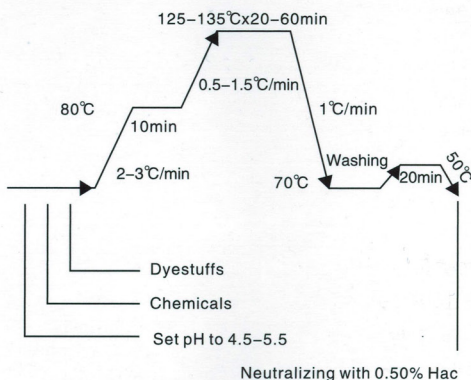
Dyeing

HTHP dyeing:	
Disperse dyes	X%
Sequester	0.3–0.5g/L
Dispersant	1–2g/L
Leveler	0.1–0.5g/L
HAc/NaAc Buffer	pH 4.5–5.5

Remark: Paste the dyestuffs and dispersant with warm water(40–50°C and dilute with cold water, stir completely. Add the solution into dyeing machine through a filter.

Reduction Clearing

Caustic Soda (100%)	1–2g/L
Hydros (85%)	2–4g/L
Detergent	1–2g/L



Thermofixation

Thermofixation mainly for continuous dyeing of polyester/cotton blends can be processed as below:

Padding–Drying

Disperse dyes	Xg/L
Anti-migrant	1–5g/L
Wetting Agent	1–2g/L
Buffer solution	pH 5–6
Temperature	20–40°C
Pick-up	65–70%
drying	70–90°C

Thermofixation

Temperature	180–220°C
Time	60"–120"

Aftertreatment

Washing
Reduction Clearing(See HTHP Dyeing)
Washing and Drying

Direct Printing

Loading → Direct Printing → Drying →
Fixation → Washing → Soaping → Reduction
Clearing(Optional) → Hydro-extraction and Drying

Recipe:

P Series	Xg
Warm Water(30°C)	Some
Ammonium Sulphate	2–5g
SequesterA	0.5–1.0g
Thickener	500–800g
Total	1000g

Fixation: The printed fabric should be dried at a
temperature below 120°C to avoid over
penetration. HTHPS, HTS or Hot Air
as below can be applied:

Pressurized fixation

0.15–0.20Mpa, 130°C, 20–30min, Processing
in Cylinder Steamer

High Temperature Fixation

175–180°C, 7–8min, Processing in High Tempe
rature Oilp steamer

Hot Air Fixation

180–210°C, 1–2min, Processing in stenter or
baker

Discharge Printing

Polyester Dyeing → Washing(Reduction
Cleaning,optional) → Drying → Discharge
Printing → Drying → HTS or PS → Washing
→ Finishing

Recipe: %

Stannous	60–80g/L
Citric Acid	30g/L
Urea	50g/L
Guar	400g/L
Total	1000g

Explantion

Dyeing Profiles

Substrate: Polyester
Temperature: 130°C
Liquor Ratio: 1:10
Run: 45mins
pH: 4.5

Dye Group

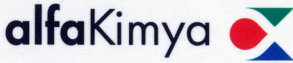
S(H): High Energy
SE: Medium Energy
E: Low Energy

Suitability

◎ : Very subitale
○ : Suitable
△ : Limited Suitable
× : Not suitable

Fastness Test Method

Color Fastness to Washing: ISO 105–C03
Color Fastness to Light: ISO 105–B02 Xenon
Color Fastness to Sublimation: ISO 105–P01
(180°Cx30sec)
Color Fastness to Perspiration: ISO 105–E04
Color Fastness to Rubbing: ISO 105–X12



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