

Remazol® Levafix® Procion® Sirius®
Product overview of reactive and direct dyes



Five reasons to choose DyStar



Reliable quality

All in-house processes at DyStar, from the procurement of raw materials to the sale of finished products, are governed by the ISO 9001 quality management system. Our reactive and direct dyes are standardised within very narrow tolerances to ensure reproducible dyeings. All dyes are available as dedusted powder or granulate formulations. Selected dyes are available as liquids.

High safety and ecology standards worldwide

We take our responsibility for people and the environment very seriously. As a member of ETAD¹ we apply the same high standards of safety and ecology worldwide and are committed to the chemical industry's Responsible Care principles. That includes issuing safety data sheets containing information on all the main health and environmental effects of our dyes and recommendations on how to handle our products safely. Our reactive and direct dyes meet all the requirements set by major ecological standards such as Oeko-Tex Standard 100².

Innovative products

DyStar invests about four percent of sales in research and development. Development of dyes focuses on improving technical, economical and ecological properties for the benefit of our customers. Recent examples are Levafix CA, Remazol RGB and Procion XL+ dyes. DyStar has also developed the world's first fluorescent reactive dye, Remazol Luminous Yellow FL.

Expert local advice

DyStar has trained and experienced representatives in all major markets to deal with questions about dyeing and printing. They can help you select the right products, support you in application processes and ensure that you reach your goals quickly and economically with our dyes.

24 hour internet service

DyStar sees the internet as an excellent complement to traditional ways of doing business. We therefore offer a customer service centre at <http://www.e-dyes.com>. Here you can select products to meet your requirements, call up the latest product information, request an offer and order our products. Register today to enjoy the benefits of this service.



¹ ETAD = Ecological and Toxicological Association of Dyes and Organic Pigment Manufacturers

² For more detailed information, please see our brochure "Oeko-Tex Standard 100".

Our reactive and direct dyes at a glance

Clearly structured product ranges

This brochure provides an overview of the reactive and direct dyes available from DyStar, worldwide. To simplify product selection, our dyes are divided into clearly structured product ranges. The pattern pages contain a brief profile of the product ranges and individual dyes. Also included is information on commercial forms, the processes they are suitable for, selected properties and recommended shade areas.

Reactive dyes <ul style="list-style-type: none"> • Warm exhaust • Cold pad-batch • Continuous 	Performance	Levafix CA	Versatile, high-performance dyes
		Levafix	For special shades and specific fastness requirements
		Remazol RR	Reliable and reproducible dyeing of critical trichromatic shades
	Economical	Remazol RGB	Very economical in deep shades
		Remazol	Extensive range of dyes offering excellent value

Reactive dyes <ul style="list-style-type: none"> • Hot exhaust 	Performance	Procion H-EXL	Reliable and reproducible dyeings with excellent levelling
	Economical	Procion XL+	Robust dyes for economical deep shades
		Procion H-E	Economical dyes for standard requirements

Direct dyes	Performance	Sirius L	Dyes for high light fastness requirements
	Economical	Sirius	Extensive range for all processes and for special requirements
		Sirius Black	High-quality, cost-effective black dyes

Levafix CA

Levafix CA dyes set new standards in reactive dyeing.

- Flexible dyes that can be combined with many types of reactive dyes
- All-rounders for use in exhaust, cold pad-batch and continuous processes
- Good reproducibility and reliable application
- Excellent wash-off properties
- Good perspiration wet light fastness; good oxidative wash fastness (multiple wash cycles)
- Low staining of synthetic fibres
- High fixation yield; AOX-free
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Recommended shade area								
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol®	TTN		Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium
Brilliant Yellow CA 1/1 SD	100%		X	X	X		X	X	X	X	X	X	X	X		4-5	5-6	X	X	X	Brilliant Yellow CA
Yellow CA 1/1 SD	100%		X	X	(X)		X	X	X	X	X	X	X	X		5	5	X	X	X	Yellow CA
Orange CA 1/1 SD	100%		X	X	(X)		X	X	X	X	X	X	X	X		4	4-5	X	X	X	Orange CA
Scarlet CA 1/1 SD	100%		X	X	(X)		X	X	X	X	X	X	X	X		4	4-5	X	X	X	Scarlet CA
Red CA 1/1 SD	100%		X	X	(X)		X	X	X	X	X	X	X	X		4	4	X	X	X	Red CA
Blue CA 1/1 SD	100%		X	X	(X)		X	X	X	X	X	X	X	X		6	6-7	X	X	X	Blue CA
Navy CA Navy pale SD	100%		X	X	(X)		X	X	X	X	X	X	X	X		3-4	3-4		X	X	Navy CA

Levafix

Reactive dyes for specific requirements.

- Excellent reproducibility in very pale shades where high light fastness is required
- Extremely brilliant shades
- Good chlorine and perspiration wet light fastness
- Fast to post-mercerisation
- For exhaust, cold pad-batch and continuous processes
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Recommended shade area									
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN	Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark	
Golden Yellow E-G 1/1 SD		150%	40%	X	X	(X)		X	X	X	X	(X)	X	X		5	5-6	(X)	X	X		Golden Yellow E-G
Yellow E-3RL 1/1 SD		100%		X	X	(X)		X	X	X	X	X	X	X		5-6	5-6	X	(X)			Yellow E-3RL
Orange E-3GA 1/1 SD		100%		X	X	(X)		X	X	X	X	X	X	X		2-3	3		X	X		Orange E-3GA
Scarlet E-2GA 1/1 SD		100%		X	X	(X)		X	X	X	X	X	X	X		3	3-4		X	X		Scarlet E-2GA
Brilliant Red E-BA 1/1 SD		100%		X	X	(X)		X	X	X	X	X	X	X		4-5	5	X	(X)			Brilliant Red E-BA
Brilliant Red E-4BA 1/1 SD		100%	40%	X	X	(X)		X	X	X	X	X	X	X		3-4	4		X	X		Brilliant Red E-4BA
Brilliant Red E-RN 1/1 SD		100%		X	X	(X)		X	X	X	X	X	X	X		3	3-4		X	X		Brilliant Red E-RN
Brilliant Red E-6BA 1/1 SD		100%	40%	X	X	(X)		X	X	X	X	X	X	X		3	4		X	X		Brilliant Red E-6BA
Brilliant Blue E-FFN 1/1 SD		150%		X	X	(X)		X	X	X	X	X	X	X		5-6	5-6	X	X			Brilliant Blue E-FFN
Royal Blue E-FR 1/1 SD		100%	40%	(X*)	X*	(X*)		X	X		X		X			6	6-7		X	X		Royal Blue E-FR

*Special process

Remazol RR

Maximum reproducibility in critical trichromatic shades.

- Very reliable application in exhaust dyeing
- Good levelling properties
- Good build-up
- Easy to wash off
- On-tone fading (light fastness)
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability													Recommended shade area							
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN	Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark	
Yellow RR 1/1 SD			100%		(X)	X			(X)	X	(X)				(X)	X	4	4	X	X	X	Yellow RR
Orange RR 1/1 SD			100%		X	X			X	X	X				X		4	4-5	X	X	X	Orange RR
Red RR 1/1 SD			100%		(X)	X			X	X	X				X		4	4-5	X	X	X	Red RR
Blue RR 1/1 SD			100%		X	X			X	X	X	X			X	X	4	5	X	X	X	Blue RR

Remazol RGB

Primarily for standard articles where low recipe costs are important.

- Economical
- Very good build-up in deep shades
- Suitable for exhaust, cold pad-batch and continuous processes
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Recommended shade area								
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN	Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark
Brilliant Yellow RGB 1/1 SD	100%		X	X				X	X	X	X		X		X	5	6	X	X	X	
Golden Yellow RGB 1/1 SD	100%		X	X				X	X	X	X		X			5	5-6	(X)	X	X	
Orange RGB 1/1 SD	100%		X	X				X	X	X	X		X			4	5		X	X	
Deep Red RGB 1/1 SD	100%		X	X				X	X	X	X		X			4	5		X	X	
Red RGB 1/1 SD	100%		X	X				X	X	X	X		X			4-5	5	(X)	X	X	
Navy RGB Navy pale SD	150%		X	X	(X)			X	X	X	X	(X)	X		X	3	3		X	X	

Remazol

Extensive range of reactive dyes offering excellent value.

- Wide range of economical dyes for exhaust, cold pad-batch and continuous processes
- Wide range of dyes for black and navy shades
- Extensive range of liquid dyes
- Selection of dyes for dischargeable dyeings
- Selection of dyes for AOX-free dyeing
- Meets the requirements of major ecology standards






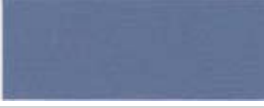



Brief description

	Commercial form	Process suitability											Recommended shade area									
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN		Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark
Brilliant Red BB 1/1 SD		150%		X	X			X	X	(X)	X		X	X	X	X	4-5	5	(X)	X	X	Brilliant Red BB
Red RB 1/1 SD		133%	50%	X	X			X	X	X	(X)		X				4	4-5	(X)	X	X	Red RB
Red GWF 1/1 SD		100%	40%	X	X			X	X	X	X		X				4	5		X	X	Red GWF
Brilliant Red F3B 1/1 SD		100%	25%	X	X			X	(X)	(X)	X		X			X	3-4	4-5	(X)	X	(X)	Brilliant Red F3B
Brilliant Red 3BS 1/1 SD		100%			X	(X)		X	X	X	X		X				3-4	4	(X)	X		Brilliant Red 3BS
Red 3B 1/3 SD		100%		(X)	(X)			X	X	X			X			X	6	-	X			Red 3B
Brilliant Violet 5R 1/1 SD		100%		X	(X)			X	X	X			X			X	4-5	6-7	X	X	(X)	Brilliant Violet 5R
Brilliant Blue R spec 1/1 SD		100%	50%	X	X	(X)		(X)	(X)	(X)							6-7	7	X	X	(X)	Brilliant Blue R spec
Brilliant Blue RN 1/1 SD		100%		X	X	(X)		X	X	X	X		X				6-7	7	X	X	(X)	Brilliant Blue RN
Brilliant Blue BB 1/1 SD		133%	50%	X	X	(X)		X	X	X	X		X			X	6	7	X	X		Brilliant Blue BB

Procion H-EXL

Maximum reproducibility and level dyeing in difficult dyeing conditions.

- Very reliable application in exhaust dyeing
- Excellent levelling properties
- For critical articles and dyeing conditions, e.g. CV, merc. CO, CEL/elastomeric fibres, garment dyeing, articles with poor dye penetration
- Low sensitivity to dyeing parameters when dyeing PES/CEL blends
- Good oxidative wash fastness (multiple wash cycles)
- Meets the requirements of major ecology standards




Brief description			Commercial form			Process suitability										Recommended shade area						
			Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN	Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark
Yellow H-EXL 1/1 SD		Light fast yellow dye. Mainly for trichromatic shades in combination with Procion Crimson H-EXL and Procion Navy H-EXL.	100%				X (X)										5	5	X	X	X	Yellow H-EXL
Brilliant Orange H-EXL 1/1 SD		For brilliant oranges and scarlets. Better wet fastness than Procion Orange H-ER.	100%				X										3-4	3-4		X (X)		Brilliant Orange H-EXL
Deep Red H-EXL 1/1 SD		Economical red component for medium to deep reds.	100%				X										3-4	4		X	X	Deep Red H-EXL
Brilliant Red H-EGXL 1/1 SD		For brilliant oranges, scarlets and reds.	100%				X										4-5	5	X	X		Brilliant Red H-EGXL
Crimson H-EXL 1/1 SD		Red component mainly for trichromatic shades in combination with Procion Yellow H-EXL and Procion Navy H-EXL.	100%				X										3-4	4	(X)	X	X	Crimson H-EXL
Blue H-EXL 1/1 SD		Bright, clear, reddish blue dye.	100%				X										4-5	5	X	X	X	Blue H-EXL
Royal Blue H-EXL 1/1 SD		Bright, reddish blue for blues and violets. Very good build-up in deep shades.	100%				X										3-4	4		X	X	Royal Blue H-EXL
Sapphire H-EXL 1/1 SD		Bright, greenish blue. Good build-up. High light fastness. Mainly for bright blue, navy and green shades.	100%				X	X									4-5	5	(X)	X	X	Sapphire H-EXL
Navy H-EXL Navy pale SD		Blue dye mainly for trichromatic shades in combination with Procion Yellow H-EXL and Procion Crimson H-EXL. Excellent levelling properties.	100%				X										3-4	4	(X)	X	X	Navy H-EXL

Procion H-EXL

Maximum reproducibility and level dyeing in difficult dyeing conditions.

- Very reliable application in exhaust dyeing
- Excellent levelling properties
- For critical articles and dyeing conditions, e.g. CV, merc. CO, CEL/elastomeric fibres, garment dyeing, articles with poor dye penetration
- Low sensitivity to dyeing parameters when dyeing PES/CEL blends
- Good oxidative wash fastness (multiple wash cycles)
- Meets the requirements of major ecology standards

Brief description

			Commercial form		Process suitability											Recommended shade area							
			Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN	Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark	
Amber H-EXL 1/1 SD		For pale trichromatic shades with high light fastness in combination with Procion Red Brown H-EXL and Procion Dark Blue H-EXL.	100%				X											5	5-6	X			Amber H-EXL
Red Brown H-EXL 1/1 SD		For dyeing pale light fast trichromatic shades in combination with Procion Amber H-EXL and Procion Dark Blue H-EXL. Good perspiration wet light fastness.	100%				X											6	6	X			Red Brown H-EXL
Dark Blue H-EXL 1/1 SD		For pale trichromatic shades with high light fastness in combination with Procion Amber H-EXL and Procion Red Brown H-EXL.	100%				X	X										5	5	X	X		Dark Blue H-EXL

Procion XL+

Robust dyes for economical deep shades.

- Economical; options to shorten process times
- Reliable application and reproducibility
- Very good levelling properties
- Excellent build-up in very deep shades
- For critical articles and dyeing conditions
- Low sensitivity to dyeing parameters when dyeing PES/CEL blends
- Good oxidative wash fastness (multiple wash cycles)
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Recommended shade area								
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN	Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark
Yellow XL+ 1/1 SD	100%						X									5-6	6	X	X	X	Yellow XL+
Brilliant Red XL+ 1/1 SD	100%				(X)		X									3	3-4		X	X	Brilliant Red XL+
Rubine XL+ 1/1 SD	100%						X									3	3-4		X	X	Rubine XL+
Cyan XL+ 1/1 SD	100%					X	X									4-5	5	(X)	X	X	Cyan XL+
Dark Blue XL+ 1/1 SD	100%						X									3	3-4		X	X	Dark Blue XL+
Navy XL+ Navy pale SD	100%						X									3-4	4			X	Navy XL+

Procion H-E

Economical dyes for standard requirements.

- Economical
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Recommended shade area												
		Powder	Granulate	Liquid	Exhaust dyeing 50 °C	Exhaust dyeing 60 °C	Exhaust dyeing 80 °C	Exhaust dyeing 90 °C	Cold pad-batch	Pad-dry-pad-steam	Pad-dry-steam	Pad-(pad-)steam	Pad-dry-thermofix	Econtrol	TTN		Dischargeable (alkaline)	Light fastness 1/6 S.D.	Light fastness 1/1 S.D.	Pale	Medium	Dark			
Yellow H-E6G 1/1 SD						X											4	4-5	X	X				Yellow H-E6G	
Yellow H-E4R 1/1 SD						X											5-6	6	X	X	X				Yellow H-E4R
Orange H-ER 1/1 SD						X											3-4	3-4		X	X				Orange H-ER
Red H-E3B 1/1 SD						X											4-5	5	X	X	X				Red H-E3B
Red H-E7B 1/1 SD						X											3-4	4		X	X				Red H-E7B
Blue H-ERD 1/1 SD						X											5-6	5-6	X	X					Blue H-ERD
Blue H-EGN 1/1 SD						X	X										4-5	5	(X)	X	X				Blue H-EGN
Turquoise H-A 1/1 SD						X											5	6	X	X					Turquoise H-A
Navy H-ER Navy pale SD						X											3-4	4		X	X				Navy H-ER

Sirius L

Versatile dyes meeting high light fastness requirements. They are mainly used to dye furnishing fabrics and home textiles.

- Very high light fastness
- Homogeneous dyeing behavior
- High reproducibility
- Meets the requirements of major ecology standards

Brief description

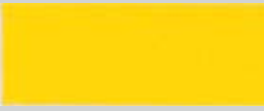









	Commercial form	Process suitability											Light fastness		Recommended shade area							
		C.I. Direct	Powder	Liquid	Exhaust dyeing of 100% CEL	One-bath one-step exhaust dyeing of PES/CEL	One-bath exhaust dyeing of PA/CEL	One-bath bleaching/dyeing (exhaust process)	Jig	Pad-steam	Pad-jig	Pad-roll	Viscose lining fabrics	Dischargeable (alkaline)	Without aftertreatment 1/2 S.D.	With Sirius A (1/2 S.D.)	Pale	Medium	Dark			
Yellow K-GRL 1/1 SD		Y 058	100%		X	X	X	X	X	X	X	X	X	X	6	6	X	X				Yellow K-GRL
Orange 3GDL 1/1 SD		O 057	100%		X	X	X	X	X	X	X	X	X	X	6	5-6	X	X				Orange 3GDL
Red F4BL 1/1 SD		R 212	100%		X		X	X	X	X	X	X	X	X	5	4	(X)	X	X			Red F4BL
Rubine K-2BL 1/1 SD		R 83:1	100%		X	X	X		X	X	X	X	X	X	5-6	4-5	(X)	X	X			Rubine K-2BL
Red Violet RL 1/1 SD		V 047	100%		X		X		X	X	X	X	X	X	5-6	4	X	X				Red Violet RL
Grey K-CGL 1/1 SD		Bk 112	100%		X	X	X		X	X	X	X	X	X	6	5	X	X				Grey K-CGL

Sirius

Extensive range of versatile direct dyes for exhaust and pad application.

- Economical
- Wide range of shades
- Suitable for all major processes
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Light fastness		Recommended shade area				
		Powder	Liquid	Exhaust dyeing of 100% CEL	One-bath one-step exhaust dyeing of PES/CEL	One-bath exhaust dyeing of PA/CEL	One-bath bleaching/dyeing (exhaust process)	Jig	Pad-steam	Pad-jig	Pad-roll	Viscose lining fabrics	Dischargeable (alkaline)	Without aftertreatment 1/2 S.D.	With Sirius A (1/2 S.D.)	Pale	Medium	Dark	
Yellow S-2G 1/1 SD 	Y 142	100%	X	X	X	X	X	X				X	X	5-6	5	X	X	X	Yellow S-2G
Yellow R 1/1 SD 	Y 050	100%	27%	X			X		X				X	5-6	5-6	X	X	X	Yellow R
Yellow K-CF 1/1 SD 	Y 086	100%		X	X	X	X	X	X	X	X	X	X	5-6	4	(X)	X	X	Yellow K-CF
Orange K-CF 1/1 SD 	O 039	100%		X	X	X	X	X	X	X	X	X	X	5-6	5	(X)	X	X	Orange K-CF
Orange K-CFN 1/1 SD 	O 034	100%		X	X	X	X	X	X	X	X	X	X	5-6	5	(X)	X	X	Orange K-CFN
Scarlet S-G 1/1 SD 	R 224	100%		X	X	X	X	X	X					3	2-3		X	X	Scarlet S-G
Scarlet K-CF 1/1 SD 	R 089	100%		X	X	X		X	X					4	3-4		X	X	Scarlet K-CF
Scarlet BN 1/1 SD 	R 095	100%		X		X	X	X	X			X		5	4	(X)	X	X	Scarlet BN
Red F3B 1/1 SD 	R 080	100%		X		X	X	X	X	X	X	X	X	3-4	3	(X)	X	X	Red F3B
Red K-BE 1/1 SD 	R 243	100%		X	X	X	X	X	X	X	X			3-4	3		X	X	Red K-BE

Sirius

Extensive range of versatile direct dyes for exhaust and pad application.

- Economical
- Wide range of shades
- Suitable for all major processes
- Meets the requirements of major ecology standards

Brief description

	Commercial form	Process suitability											Light fastness		Recommended shade area				
		Powder	Liquid	Exhaust dyeing of 100% CEL	One-bath one-step exhaust dyeing of PES/CEL	One-bath exhaust dyeing of PA/CEL	One-bath bleaching/dyeing (exhaust process)	Jig	Pad-steam	Pad-jig	Pad-roll	Viscose lining fabrics	Dischargeable (alkaline)	Without aftertreatment 1/2 S.D.	With Sirius A (1/2 S.D.)	Pale	Medium	Dark	
Blue K-CFN 1/1 SD	Bl 085	100%	X	X	X	X	X	X	X	X	X	X	X	5	4	X	X	X	Blue K-CFN
Blue K-GRLN 1/1 SD	-	100%	X	X	X	X	X	X	X	X	X	X	X	4-5	4		X	X	Blue K-GRLN
Blue GN 1/1 SD	Bl 078	100%	X	X		X	X	X	X	X	X	X	X	4	3-4		X	X	Blue GN
Blue K-BE 1/1 SD	Bl 200	100%	X	X	X		X	X				X	X	5-6	5-6	X	X	X	Blue K-BE
Blue S-BRR 1/1 SD	Bl 071	100%	X	X	X	X	X	X	X	X	X	X	X	4-5	4		X	X	Blue S-BRR
Royal Blue S 1/1 SD	-	100%	X	X	X		X	X	X	X	X		5	4		X	X	Royal Blue S	
Turquoise S-FBL 1/1 SD	Bl 199	100%	X	X	(X)		X	X	X	X	X		6	5-6	X	X	X	Turquoise S-FBL	
Green S-4B 1/1 SD	Gr 026	100%	X	X	X		X	X	X	X	X	X	4	3-4	(X)	X	X	Green S-4B	
Brown BRK-N 1/1 SD	-	100%	X			X	X	X					4-5	3-4		X	X	Brown BRK-N	
Brown 3RL 1/1 SD	R 084	100%	X			X	X	X	X	X	X	X	5	4	X	X	(X)	Brown 3RL	

Sirius

Extensive range of versatile direct dyes for exhaust and pad application.

- Economical
- Wide range of shades
- Suitable for all major processes
- Meets the requirements of major ecology standards

Brief description

	C.I. Direct	Commercial form		Process suitability										Light fastness		Recommended shade area			
		Powder	Liquid	Exhaust dyeing of 100% CEL	One-bath one-step exhaust dyeing of PES/CEL	One-bath exhaust dyeing of PA/CEL	One-bath bleaching/dyeing (exhaust process)	Jig	Pad-steam	Pad-jig	Pad-roll	Viscose lining fabrics	Dischargeable (alkaline)	Without aftertreatment 1/2 S.D.	With Sirius A (1/2 S.D.)	Pale	Medium	Dark	
Brown RL 1/1 SD	Br 116	100%		X	X			X	X	X	X	X		5	4	X	X	(X)	Brown RL
Dark Brown G-V 1/1 SD	-	100%		X				X	X	X	X	X		2-3	2	X	X	X	Dark Brown G-V

Sirius Black

Economical, high-quality blacks with a good ecological profile.

- Economical
- Liquid dyes available
- Meets the requirements of major ecology standards

Brief description

	C.I. Direct	Commercial form		Process suitability										Light fastness		Recommended shade area		
		Powder	Liquid	Exhaust dyeing of 100% CEL	One-bath one-step exhaust dyeing of PES/CEL	One-bath exhaust dyeing of PA/CEL	One-bath bleaching/dyeing (exhaust process)	Jig	Pad-steam	Pad-jig	Pad-roll	Viscose lining fabrics	Dischargeable (alkaline)	Without aftertreatment 1/2 S.D.	With Sirius A (1/2 S.D.)	Pale	Medium	Dark
Black VSF h/c Black SD	Bk.022	100%		X	X	X		X					X	3-4	3			X
Black S-VSF Black SD	Bk.022		25%	X	X	X		X	X	X	X	X	X	3-4	3			X
Black OB-V Black SD	Bk.080	100%		X	X	X		X	X	X	X	X	X	3-4	3	X	X	X
Black L-V Black SD	Bk.051	100%		X			X	X	X	X	X	X	X	3	2	X	X	X
Black FRB-V Black SD	-	100%		X				X	X	X	X	X	X	3-4	3		X	X
Black G Black SD	Bk.019	100%	31%	X			X	X	X	X	X	X	X	3-4	3			X

Dyeings

All dyes are illustrated in 1/1, navy pale or black standard depths on bleached, mercerised woven cotton fabric.

Please note that the appearance of the colours of the dye samples depends on the settings of your local PC and printer. For this reason, the shades illustrated will differ to some extent from the actual dyed samples.

Light fastness

Test method:

Light fastness (xenon arc) ISO 105-B02

Test fabric reactive dyeings:

Bleached, mercerised cotton

Test fabric direct dyeings:

Bleached cotton

Dischargeability

The data on dischargeability refer to alkaline white discharges of dyeings at 1/2 S.D.

Pad-steam process

Remazol dyes have limited suitability for pad-steam application.

Status: February 2003

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