

Sales Range

**FOR THE PRINTING INK,
PAINTS, PLASTICS
INDUSTRIES AND
SPECIAL APPLICATIONS**

Pigments,
pigment preparations
and dyes
FROM CLARIANT

Clariant supplies pigments and dyes. These ranges, supplemented by pigment preparations and special grades, offer a wide variety of products for the printing ink, paint, plastics, rubber, office supplies, wood and detergents industries as well as for other special fields.

For the standard range of pigments we give a general overview indicating their possible technical uses in the main fields of application.

It is not appropriate to treat the special grades, pigment preparations, dyes and intermediates/chemicals in the same way as the standard ranges and therefore they appear in the brochure as separate ranges with less details of their special fields of application.

THE SYMBOLS MEAN:

- Main field of application
- Additional field of application
- Limited suitability
- Not recommended

We would however point out that this classification is simply a general guide that is intended to make it easier to select suitable products from our range of colorants.

Suitability e.g. for the coloration and printing of food packaging or use in cosmetic products is subject to statutory requirements which differ from country to country. It is the customers responsibility to comply with applicable laws and regulations.

NOTES ON DIARYL PIGMENTS

It has been known for some considerable time that diaryl pigments can release 3,3'-DCB when they are processed in polymers at temperatures above 200 °C.

The following pigments supplied by Clariant are diaryl pigments:

Pigment Yellow 12	Pigment Yellow 126
Pigment Yellow 13	Pigment Yellow 127
Pigment Yellow 14	Pigment Yellow 174
Pigment Yellow 16	Pigment Yellow 176
Pigment Yellow 17	Pigment Orange 13
Pigment Yellow 81	Pigment Orange 34
Pigment Yellow 83	Pigment Red 38

All products based on the above diaryl pigments can be found in this brochure.

These products must not be used at processing temperatures above 200 °C because of possible thermal decomposition (see safety data sheets) even if no shade change occurs at elevated processing temperatures.

Registered TRADEMARKS

AGROCER®
ANODAL®
CARTASOL®
CARTAX®
CERIDUST®
COLANYL®
COSMENYL®
DRIMAREN®
DUASYN®
FLEXONYL®
FLEXOPRINT®
GRAPHTOL®
HANSA®
HDK®⁽²⁾
HOSTACOPY®⁽¹⁾
HOSTAFINE®⁽¹⁾
HOSTAJET®⁽¹⁾
HOSTAPERM®⁽¹⁾

HOSTAPRINT®⁽¹⁾
HOSTASIN®⁽¹⁾
HOSTASOL®⁽¹⁾
HOSTATINT®⁽¹⁾
LICOCENE®
LICOWAX®
NOVOPERM®
POLYSYNTHREN®
PV FAST®
RENOL®
SANODAL®
SANODURE®
SANODYE®
SANOLIN®
SAVINYL®
SOLVAPERM®
TELALUX®
VISCOFIL®

Sales Range

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1 STANDARD RANGES OF PIGMENTS

- 1.1 Hostaperm
- 1.2 Novoperm
- 1.3 Permanent
- 1.4 Hansa
- 1.5 Flexoprint
- 1.6 Cartax
- 1.7 PV Fast
- 1.8 Graphtol
- 1.9 Novotex
- 1.10 Agrocet

1.1 HOSTAPERM

The Hostaperm range comprises the pigments, which are noted for very high fastness properties. Suitable grades are listed on the basis of excellent light and weathering fastness and satisfactory migration fastness.

LITERATURE

Pattern card DP 5018 E
 »Decorative paints, industrial paints, automotive paints«
 Pattern card DP 7068 ED
 »Hostaperm - Pigments for the paint industry«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PRINTING INKS				PAINTS					
			Offset printing	Publication gravure printing	Packaging printing (solvent-based)	Packaging printing (aqueous)	Automotive OEM paints	Automotive refinishing paints	Industrial paints (general)	Powder coatings	Decorative paints	Office supplies - artists' colors
HOSTAPERM OXIDE YELLOW BV 02	Pigment Yellow 184	771740	—	—	—	—	■	■	■	■	●	—
HOSTAPERM YELLOW H6G	Pigment Yellow 175	11784	●	—	○	■	●	●	■	●	●	●
HOSTAPERM YELLOW H5G	Pigment Yellow 213	—	—	—	—	—	■	■	●	●	●	—
HOSTAPERM YELLOW HN4G [Ⓞ]	Pigment Yellow 150	12764	—	—	—	—	—	—	—	—	—	—
HOSTAPERM YELLOW H4G	Pigment Yellow 151	13980	●	—	○	■	●	■	■	■	●	●
HOSTAPERM YELLOW H4G 70	Pigment Yellow 151	13980	—	—	—	—	●	■	■	■	●	●
HOSTAPERM YELLOW H3G	Pigment Yellow 154	11781	●	—	○	○	■	●	●	●	●	●
HOSTAPERM ORANGE GR	Pigment Orange 43	71105	●	—	●	○	●	●	●	●	■	●
HOSTAPERM SCARLET GO	Pigment Red 168	59300	●	—	●	●	■	■	●	●	■	●
HOSTAPERM SCARLET GO TRANSP.	Pigment Red 168	59300	—	—	—	—	■	■	●	—	—	●
HOSTAPERM RED D3G 70	Pigment Red 254	56110	■	—	●	●	●	●	■	●	●	●
HOSTAPERM RED D2G 70	Pigment Red 254	56110	—	—	—	—	■	■	■	●	●	●
HOSTAPERM RED P2GL-WD	Pigment Red 179	71130	—	—	—	—	■	●	●	—	—	—
HOSTAPERM RED E2B 70	Pigment Violet 19	73900	●	—	●	●	■	●	●	—	—	●
HOSTAPERM RED E3B	Pigment Violet 19	73900	●	—	●	●	●	●	■	●	●	●
HOSTAPERM RED E5B 02	Pigment Violet 19	73900	●	—	●	●	●	●	■	●	●	●
HOSTAPERM PINK E	Pigment Red 122	73915	●	—	●	■	■	■	■	●	●	●
HOSTAPERM PINK E-WD	Pigment Red 122	73915	—	—	—	—	—	—	●	—	■	●
HOSTAPERM PINK E 02	Pigment Red 122	73915	■	—	●	■	—	—	—	—	—	●
HOSTAPERM PINK E TRANSP. 01	Pigment Red 122	73915	—	—	—	—	■	■	●	—	—	●
HOSTAPERM PINK EB TRANSP.	Pigment Red 122	73915	—	—	—	—	■	■	●	—	—	●

Ⓞ Regarding printing application it is only recommended for decorative laminates

NAME	COLOUR INDEX	COLOUR INDEX NO.	PRINTING INKS					PAINTS				
			Offset printing	Publication gravure printing	Packaging printing (solvent-based)	Packaging printing (aqueous)	Automotive OEM paints	Automotive refinishing paints	Industrial paints (general)	Powder coatings	Decorative paints	Office supplies - artists' colors
HOSTAPERM RED VIOLET ER 02	Pigment Violet 19	73900	●	—	●	●	■	■	■	●	●	●
HOSTAPERM VIOLET BL 01	Pigment Violet 23	51319	—	—	—	—	■	■	■	●	●	—
HOSTAPERM VIOLET RL SPEC.	Pigment Violet 23	51319	●	—	●	■	■	■	●	●	●	
HOSTAPERM VIOLET RL-NF	Pigment Violet 23	51319	—	—	—	—	■	■	■	—	—	—
HOSTAPERM VIOLET RL 02	Pigment Violet 23	51319	■	—	●	■	—	—	—	—	—	
HOSTAPERM VIOLET P-RL	Pigment Violet 23	51319	○	—	■	○	—	—	—	—	●	
HOSTAPERM BLUE A4R	Pigment Blue 15:1	74160	—	—	—	—	●	●	■	■	●	—
HOSTAPERM BLUE A2R	Pigment Blue 15:1	74160	○	—	●	■	●	●	■	—	●	●
HOSTAPERM BLUE BT-728-D	Pigment Blue 15:1	74160	—	—	—	—	■	■	—	—	—	—
HOSTAPERM BLUE BT-729-D	Pigment Blue 15:1	74160	—	—	—	—	■	■	—	—	—	—
HOSTAPERM BLUE BT-627-D	Pigment Blue 15:2	74160	—	—	—	—	■	■	●	—	—	—
HOSTAPERM BLUE B2G	Pigment Blue 15:3	74160	—	—	—	—	●	●	■	●	●	—
HOSTAPERM BLUE B2G-L	Pigment Blue 15:3	74160	—	—	—	—	●	●	■	■	●	●
HOSTAPERM BLUE B4G	Pigment Blue 15:3	74160	■	●	●	■	●	●	■	●	●	—
HOSTAPERM BLUE BT-617-D	Pigment Blue 15:4	74160	—	—	—	—	■	■	●	—	—	—
HOSTAPERM GREEN GNX	Pigment Green 7	74260	■	—	●	■	■	■	■	●	●	●
HOSTAPERM BROWN HFR 01	Pigment Brown 25	12510	■	—	○	○	■	■	●	●	—	●

1.2 NOVOPERM

Novoperm is the trade name for pigments with above-average fastness properties. These products are suitable - depending on the grade - for use in the paint and printing ink industries.

LITERATURE

Pattern card DP 5018 E
»Decorative paints, industrial paints, automotive paints«
Pattern card DP 7068 ED
»Novoperm - Pigments for the paint industry«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PRINTING INKS				PAINTS					
			Offset printing	Publication gravure printing	Packaging printing (solvent-based)	Packaging printing (aqueous)	Automotive OEM paints	Automotive refinishing paints	Industrial paints (general)	Powder coatings	Decorative paints	Office supplies - artists' colors
NOVOPERM YELLOW H10G 01	Pigment Yellow 81	21127	●	—	●	●	—	—	●	—	—	●
NOVOPERM YELLOW P-HG	Pigment Yellow 180	21290	●	—	■	○	—	—	—	—	—	●
NOVOPERM YELLOW FGL	Pigment Yellow 97	11767	●	—	●	●	—	—	●	○	■	●
NOVOPERM YELLOW F2G	Pigment Yellow 194	11785	●	—	—	■	—	—	■	■	●	●
NOVOPERM YELLOW 5GD 71	Pigment Yellow 155	200310	●	—	●	●	○	●	■	■	●	●
NOVOPERM YELLOW 4G 01	Pigment Yellow 155	200310	●	—	●	●	—	—	●	●	—	—
NOVOPERM YELLOW H2G	Pigment Yellow 120	11783	●	—	—	●	—	●	■	■	—	●
NOVOPERM YELLOW H3R	Pigment Yellow 181	11777	●	—	●	■	—	—	—	—	—	—
NOVOPERM YELLOW H3R-LA	Pigment Yellow 181	11777	—	—	—	■	—	—	—	—	—	—
NOVOPERM YELLOW HR	Pigment Yellow 83	21108	●	—	●	●	—	—	●	●	●	●
NOVOPERM YELLOW HR 02	Pigment Yellow 83	21108	■	—	—	■	—	—	●	●	—	●
NOVOPERM YELLOW HR 04	Pigment Yellow 83	21108	●	—	■	●	—	—	—	—	—	●
NOVOPERM YELLOW P-HRE	Pigment Yellow 83	21108	—	—	■	—	—	—	—	—	—	—
NOVOPERM YELLOW HR 70	Pigment Yellow 83	21108	●	—	—	●	○	●	■	■	●	●
NOVOPERM YELLOW M2R 70	Pigment Yellow 139	56298	—	—	—	—	●	●	■	■	—	—
NOVOPERM YELLOW P-M3R	Pigment Yellow 139	56298	●	—	■	—	—	—	●	—	—	—
NOVOPERM ORANGE H5G 70	Pigment Orange 62	11775	●	—	●	●	○	●	■	●	●	●
NOVOPERM ORANGE HL	Pigment Orange 36	11780	●	—	●	●	—	—	●	●	●	●
NOVOPERM ORANGE HL 70	Pigment Orange 36	11780	●	—	●	●	■	■	■	■	●	●
NOVOPERM ORANGE HL 70-NF	Pigment Orange 36	11780	—	—	—	—	■	■	●	—	—	—

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NOVOPERM RED HFG	Pigment Orange 38	12367	●	—	●	●	—	—	—	—	●	—	●
NOVOPERM RED HF3S	Pigment Red 188	12467	●	—	●	●	—	—	●	●	■	—	●
NOVOPERM RED HF3S 70	Pigment Red 188	12467	—	—	—	—	●	●	■	●	●	—	●
NOVOPERM SCARLET 4RF 01	Pigment Red 242	20067	●	—	●	●	—	—	●	●	●	—	●
NOVOPERM RED F2RK 70	Pigment Red 170	12475	●	—	●	●	●	●	●	●	—	—	●
NOVOPERM RED F3RK 70	Pigment Red 170	12475	●	—	●	●	○	●	■	■	—	—	●
NOVOPERM RED F5RK	Pigment Red 170	12475	●	—	●	■	—	—	■	■	—	—	●
NOVOPERM RED BN	Pigment Red 214	200660	—	—	—	—	—	—	●	●	—	—	—
NOVOPERM RED HF2B 01	Pigment Red 208	12514	●	—	●	●	—	—	—	—	—	—	●
NOVOPERM RED HF4B	Pigment Red 187	12486	●	—	●	●	—	●	●	●	—	—	●
NOVOPERM RED BLS 02	Pigment Red 48:4	15865:4	●	—	●	○	—	—	■	—	—	—	—
NOVOPERM CARMINE HF3C	Pigment Red 176	12515	●	—	●	●	—	—	—	—	—	—	●
NOVOPERM CARMINE HF4C	Pigment Red 185	12516	●	—	●	●	—	—	—	●	—	—	●
NOVOPERM BORDEAUX 5BLS	Pigment Red 48:4	15865:4	—	—	—	—	—	—	■	—	—	—	—
NOVOPERM BORDEAUX HF3R	Pigment Violet 32	12517	●	—	■	●	—	—	●	●	—	—	●

1.3 PERMANENT

This group comprises pigments that vary in fastness properties. Because of their high tinctorial strength, good gloss and excellent chemical resistance coupled with largely good light fastness the Permanent Yellow

and Orange pigments are of particular interest to the printing ink industry. Special grades with specific improvements for the individual printing processes were developed for this sector. The red pigments

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PERMANENT YELLOW NCG	Pigment Yellow 16	20040	●	—	—	■	—	—	●	—	—	●
PERMANENT YELLOW GG 02	Pigment Yellow 17	21105	●	—	■	■	—	—	○	○	—	●
PERMANENT YELLOW DHG	Pigment Yellow 12	21090	■	—	●	●	—	—	○	—	—	●
PERMANENT YELLOW DHG 2050G	Pigment Yellow 12	21090	—	—	—	—	—	—	—	—	—	—
PERMANENT YELLOW DHG N26	Pigment Yellow 12	21090	—	■	—	—	—	—	—	—	—	—
PERMANENT YELLOW DHG N22	Pigment Yellow 12	21090	—	■	—	—	—	—	—	—	—	—
PERMANENT YELLOW DGR	Pigment Yellow 126	21101	■	—	●	■	—	—	—	—	—	●
PERMANENT YELLOW GR	Pigment Yellow 13	21100	■	—	●	■	—	—	○	○	—	●
PERMANENT YELLOW GR 01	Pigment Yellow 13	21100	■	—	●	■	—	—	—	—	—	●
PERMANENT YELLOW P-GRL 06	Pigment Yellow 13	21100	—	—	■	○	—	—	—	—	—	—
PERMANENT YELLOW P-GRL 07	Pigment Yellow 13	21100	—	—	■	—	—	—	—	—	—	—
PERMANENT YELLOW GRS 80	Pigment Yellow 174	21098	■	—	—	—	—	—	—	—	—	—
PERMANENT YELLOW GRL 03	Pigment Yellow 127	21102	■	—	●	■	—	—	—	—	—	●
PERMANENT YELLOW GRX 83	Pigment Yellow 176	21103	■	—	—	○	—	—	—	—	—	—
PERMANENT YELLOW GRX 86	Pigment Yellow 176	21103	■	—	—	○	—	—	—	—	—	●
PERMANENT YELLOW P-G	Pigment Yellow 14	21095	■	—	■	—	—	—	—	—	—	—
PERMANENT ORANGE G	Pigment Orange 13	21110	■	—	●	■	—	—	○	○	—	●
PERMANENT ORANGE 2RLD 71	Pigment Orange 74	—	●	—	●	■	—	—	■	●	●	●
PERMANENT ORANGE RL 01	Pigment Orange 34	21115	■	○	●	■	—	—	○	●	—	●
PERMANENT ORANGE RL 70	Pigment Orange 34	21115	●	—	●	■	—	—	■	■	—	●

which are listed here commonly are used in the graphic industry because of their tinctorial strength and gloss as well as important pigments for industrial and decorative paints.

LITERATURE

Pattern card DP 5018 E
 »Decorative paints, industrial paints, automotive paints«
 Pattern card DP 7068 ED
 »Permanent - Pigments for the paint industry«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PRINTING INKS					PAINTS				
			Offset printing	Publication gravure printing	Packaging printing (solvent-based)	Packaging printing (aqueous)	Automotive OEM paints	Automotive refinishing paints	Industrial paints (general)	Powder coatings	Decorative paints	Office supplies - artists' colors
PERMANENT RED FRL 01	Pigment Red 9	12460	●	—	●	●	—	—	—	—	—	●
PERMANENT LAKE RED LCY	Pigment Red 53:1	15585:1	■	●	●	■	—	—	—	—	—	—
PERMANENT LAKE RED LCLL	Pigment Red 53:1	15585:1	■	●	●	■	—	—	○	—	—	●
PERMANENT RED FRR	Pigment Red 2	12310	●	—	●	■	—	—	—	—	—	●
PERMANENT RED FGR	Pigment Red 112	12370	●	—	●	●	—	—	■	○	■	●
PERMANENT RED FGR 02	Pigment Red 112	12370	●	—	●	●	—	—	■	—	■	●
PERMANENT RED FGR 03	Pigment Red 112	12370	■	—	●	■	—	—	—	—	—	●
PERMANENT RED FGR 70	Pigment Red 112	12370	●	—	●	●	—	—	■	○	■	●
PERMANENT RED LB 01	Pigment Red 48:2	15865:2	●	—	■	○	—	—	—	—	—	—
PERMANENT RED P-FK	Pigment Red 210	12477	○	—	■	○	—	—	—	—	—	●
PERMANENT BORDEAUX FGR	Pigment Red 14	12380	●	—	●	●	—	—	●	—	■	●
PERMANENT CARMINE FB 01	Pigment Red 5	12490	—	—	—	—	—	—	—	—	—	●
PERMANENT CARMINE FBB 02	Pigment Red 146	12485	●	—	■	■	—	—	●	—	—	●
PERMANENT RUBINE F6B	Pigment Red 184	12487	●	—	■	■	—	—	—	—	—	●
PERMANENT RUBINE F6B 01	Pigment Red 184	12487	●	—	■	■	—	—	—	—	—	●
PERMANENT RUBINE L4B 01	Pigment Red 57:1	15850:1	■	●	—	○	—	—	—	—	—	—
PERMANENT RUBINE L5B 01	Pigment Red 57:1	15850:1	■	●	—	○	—	—	—	—	—	—
PERMANENT RUBINE L5BT	Pigment Red 57:1	15850:1	—	■	—	—	—	—	—	—	—	—
PERMANENT RUBINE P-F7B	Pigment Red 184	12487	○	—	■	○	—	—	—	—	—	●
PERMANENT RUBINE P-L7B 01	Pigment Red 57:1	15850:1	●	●	■	○	—	—	—	—	—	—
PERMANENT RUBINE LPM	Pigment Red 57:1	15850:1	■	—	—	—	—	—	—	—	—	—
PERMANENT PINK F3B 01	Pigment Red 147	12433	●	—	■	■	—	—	—	—	—	●
PERMANENT BORDEAUX FRR	Pigment Red 12	12385	●	—	●	●	—	—	○	—	■	●

1.4 HANSA

The Hansa Yellow pigments are noted for very good light fastness. Use of the Hansa Red grades should be restricted to full-shade colorations. The Hansa pigments do not have adequate fastness to over-painting. They are standard pigments for air-drying paints. The Hansa pigments also have excellent light fastness in printing inks. But they are not fast to over-painting or resistant to stoving and sterilization. The pigments are noted for very good rheological properties.

LITERATURE

Pattern card DP 5018 E
 »Decorative paints, industrial paints, automotive paints«
 Pattern card DP 7068 ED
 »Hansa - Pigments for the paint industry«

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			Offset printing	Publication gravure printing	Packaging printing (solvent-based)	Packaging printing (aqueous)	Automotive OEM paints	Automotive refinishing paints	Industrial paints (general)	Powder coatings	Decorative paints	Office supplies - artists' colors
HANSA YELLOW 10G	Pigment Yellow 3	11710	●	—	●	■	—	—	○	—	■	■
HANSA YELLOW 10G 41 GRAN.	Pigment Yellow 3	11710	●	—	—	■	—	—	○	—	■	●
HANSA BRILLIANT YELLOW 9GX	—	—	●	—	—	■	—	—	—	—	—	●
HANSA YELLOW 5GX 01 *	Pigment Yellow 74	11741	—	—	—	—	—	—	—	—	—	—
HANSA BRILLIANT YELLOW 5GX	Pigment Yellow 74	11741	—	—	—	—	—	○	—	■	●	
HANSA BRILLIANT YELLOW 5GX 03	Pigment Yellow 74	11741	●	—	●	■	—	—	—	—	●	
HANSA BRILLIANT YELLOW 4GX	Pigment Yellow 73	11738	●	—	●	■	—	—	○	—	■	●
HANSA YELLOW G 02	Pigment Yellow 1	11680	—	—	●	■	—	—	○	—	■	●
HANSA BRILLIANT YELLOW 2GX 70	Pigment Yellow 74	11741	●	—	●	■	—	—	○	—	■	●
HANSA BRILLIANT YELLOW 2GX 70-S	Pigment Yellow 74	11741	—	—	—	—	—	—	○	—	■	—
HANSA RED GG	Pigment Orange 5	12075	●	—	●	■	—	—	○	—	■	●
HANSA RED R	Pigment Red 4	12085	●	—	●	■	—	—	○	—	—	●
HANSA SCARLET RNC	Pigment Red 3	12120	●	—	●	■	—	—	●	—	●	●
HANSA RED B	Pigment Red 3	12120	●	—	●	■	—	—	●	—	●	●
HANSA RED 3B	Pigment Red 3	12120	○	—	●	■	—	—	●	—	●	●

* Only for ○ Ink Jet and ■ Toner

1.5 FLEXOPRINT

Flexoprint pigments are surface-treated special pigments for aqueous gravure and flexographic printing inks. In these systems they offer the

advantages of aqueous and dry preparations without having their disadvantages.

NAME	COLOUR INDEX	PASTE INKS						LIQUID INKS							
		Sheet-fed	Heatset	Coldset	Silk screen	Metal deco	UV curing	NC. alcohol	NC. acetate	Water based	PVB	PA	Pub gravure	Decorative laminates	UV curing
FLEXOPRINT YELLOW HR	Pigment Yellow 83	-	-	-	-	-	-	-	-	■	-	-	-	-	-
FLEXOPRINT BLACK CB 01	Pigment Black 7	-	-	-	-	-	-	-	-	■	-	-	-	-	-

1.6 CARTAX

UV-fluorescent pigment for marking and coding purposes (e. g. security papers etc.).

NAME	COLOUR INDEX	PASTE INKS						LIQUID INKS							
		Sheet-fed	Heatset	Coldset	Silk screen	Metal deco	UV curing	NC. alcohol	NC. acetate	Water based	PVB	PA	Pub gravure	Decorative laminates	UV curing
CARTAX CXDP POWDER	-	●	●	-	●	●	●	●	●	●	●	●	-	●	●
CARTAX DP LIQUID	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-

1.7 PV FAST

Highly fast organic pigments with outstanding heat resistance, light fastness and bleeding fastness in various polymers.

LITERATURE

Pattern card DP 7081 ED
»Organic pigments for plastics coloration«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PLASTICS						PRIN- TING INKS	PAINT	
			PVC	Polyolefins	Polystyrene	Polybutylene terephthalate*	Polycarbonate	Polyamide 6		Decorative laminates	Powder coatings
PV FAST YELLOW H9G	Pigment Yellow 214	—	■	■	●	—	—	—	—	—	●
PV FAST YELLOW H4G	Pigment Yellow 151	13980	■	■	●	—	—	—	—	—	—
PV FAST YELLOW H2G	Pigment Yellow 120	11783	■	■	●	—	—	—	●	—	—
PV FAST YELLOW HG 01	Pigment Yellow 180	21290	●	■	●	●	●	—	■	—	—
PV FAST YELLOW HG	Pigment Yellow 180	21290	●	■	●	●	●	—	■	●	●
PV FAST YELLOW H2GR	Pigment Yellow 191	18795	●	■	●	●	●	—	—	—	—
PV FAST YELLOW HGR	Pigment Yellow 191	18795	●	■	●	●	●	—	●	●	●
PV FAST YELLOW HR 02	Pigment Yellow 83	21108	■	○	—	—	—	—	—	—	●
PV FAST YELLOW HR	Pigment Yellow 83	21108	■	○	—	—	—	—	—	—	—
PV FAST YELLOW H3R	Pigment Yellow 181	11777	●	■	●	●	—	—	■	●	●
PV FAST ORANGE HGR	—	—	■	■	■	■	■	—	—	—	—
PV FAST ORANGE H4GL 01	Pigment Orange 72	211095	●	■	●	—	—	—	●	●	●
PV FAST ORANGE H2GL	Pigment Orange 64	12760	●	■	●	○	○	—	—	—	—
PV FAST ORANGE GRL	Pigment Orange 43	71105	●	■	●	●	●	○	—	—	●
PV FAST ORANGE 6RL	Pigment Orange 68	486150	●	■	●	●	●	●	—	—	—
PV FAST SCARLET 4RF	Pigment Red 242	20067	■	■	●	●	●	—	—	—	●
PV FAST RED HGR	Pigment Red 285	—	●	■	○	—	○	—	—	—	●
PV FAST RED B	Pigment Red 149	71137	●	■	●	●	●	○	●	●	●
PV FAST RED D3G	Pigment Red 254	56110	■	■	○	○	—	—	■	—	●
PV FAST RED HB	Pigment Red 247	15915	●	■	■	●	●	—	—	●	—
PV FAST RED 3B	Pigment Red 144	20735	■	■	●	●	●	—	—	●	●
PV FAST RED BNP	Pigment Red 214	200660	■	■	●	●	●	—	●	—	●
PV FAST RED HF4B	Pigment Red 187	12486	■	●	●	●	●	—	—	—	●
PV FAST RED E4G	Pigment Violet 19	73900	●	■	●	●	●	○	—	—	—
PV FAST RED E3B	Pigment Violet 19	73900	●	■	●	●	●	○	—	—	●

* Organic pigments can have a nucleating effect in PET, and therefore preliminary trials are necessary.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PLASTICS						PRIN- TING INKS	PAINT	
			PVC	Polyolefins	Polystyrene	Polybutylene terephthalate*	Polycarbonate	Polyamide 6		Decorative laminates	Powder coatings
PV FAST RED E5B	Pigment Violet 19	73900	●	■	●	●	●	○	—	—	●
PV FAST PINK E	Pigment Red 122	73915	●	■	●	●	●	○	—	—	●
PV FAST PINK E 01	Pigment Red 122	73915	●	■	●	●	●	○	—	—	●
PV FAST PINK E2B	Pigment Red 122	73915	●	■	●	●	●	○	—	—	●
PV FAST VIOLET BLP	Pigment Violet 23	51319	●	■	●	—	—	○	—	—	●
PV FAST VIOLET RL	Pigment Violet 23	51319	●	■	●	—	—	○	—	—	●
PV FAST BLUE A4R	Pigment Blue 15:1	74160	■	■	●	○	○	—	—	—	●
PV FAST BLUE A2R	Pigment Blue 15:1	74160	■	■	●	○	○	○	—	●	●
PV FAST BLUE BG	Pigment Blue 15:3	74160	■	■	●	●	●	●	—	■	●
PV FAST GREEN GNX	Pigment Green 7	74260	■	■	●	●	●	○	—	—	●
PV FAST BROWN HFR	Pigment Brown 25	12510	■	●	—	—	—	—	—	—	●
PV FAST BROWN RL	Pigment Brown 41	—	■	●	●	—	—	—	—	—	●

* Organic pigments can have a nucleating effect in PET, and therefore preliminary trials are necessary.

1.8 GRAPHTOL

Classic and newly developed organic pigments with good application properties and an attractive price performance ratio.

LITERATURE

Pattern card DP 7081 ED
»Organic pigments for plastics coloration«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PLASTICS						PAINT	
			PVC	Polyolefins	Polystyrene	Polybutylene terephthalate*	Polycarbonate	Polyamide 6	Powder coatings	Office supplies - artists' colors
GRAPHTOL YELLOW GG	Pigment Yellow 17	21105	■	○	—	—	—	—	—	●
GRAPHTOL YELLOW 3GP	Pigment Yellow 155	200310	●	■	●	—	—	—	○	●
GRAPHTOL YELLOW GR	Pigment Yellow 13	21100	■	○	—	—	—	—	—	●
GRAPHTOL YELLOW H2R	Pigment Yellow 139	56298	●	■	—	—	—	—	○	●
GRAPHTOL ORANGE GPS	Pigment Orange 13	21110	■	○	—	—	—	—	—	●
GRAPHTOL ORANGE RL	Pigment Orange 34	21115	■	○	—	—	—	—	—	●
GRAPHTOL RED HFG	Pigment Orange 38	12367	■	●	—	—	—	—	—	●
GRAPHTOL RED LG	Pigment Red 53:1	15585:1	■	■	●	—	●	—	—	●
GRAPHTOL RED LC	Pigment Red 53:1	15585:1	■	■	●	—	●	—	○	—
GRAPHTOL RED BB	Pigment Red 38	21120	●	○	—	—	—	—	—	—
GRAPHTOL RED F3RK 70	Pigment Red 170	12475	—	■	—	—	—	—	—	●
GRAPHTOL FIRE RED 3RLP	Pigment Red 48:3	15865:3	■	■	●	—	—	—	○	●
GRAPHTOL RED HF2B	Pigment Red 208	12514	■	○	—	—	—	—	—	●
GRAPHTOL RED F5RK	Pigment Red 170	12475	—	■	—	—	—	—	—	●
GRAPHTOL RED P2B	Pigment Red 48:2	15865:2	■	■	●	—	—	—	—	●
GRAPHTOL CARMINE HF4C	Pigment Red 185	12516	■	●	●	—	—	—	—	●
GRAPHTOL CARMINE HF3C	Pigment Red 176	12515	■	●	●	—	●	—	—	●
GRAPHTOL RUBINE L4B	Pigment Red 57:1	15850:1	■	■	○	—	—	—	○	●
GRAPHTOL BORDEAUX HF3R	Pigment Violet 32	12517	■	○	—	—	—	—	—	●
GRAPHTOL BLUE AN	Pigment Blue 15	74160	■	—	—	—	—	—	—	●

* Organic pigments can have a nucleating effect in PET, and therefore preliminary trials are necessary.

1.9 NOVOTEX

The pigments included in the Novotex range were developed specially for use in the textile printing and agricultural sectors. The products are supplied

in powder form. The standardization is carried out in an aqueous system with wider specification limits.

NAME	COLOUR INDEX	COLOUR INDEX NO.	FIELD OF APPLICATION		
			Textile printing sector	Agricultural sector	Office supplies
NOVOTEX YELLOW HR 02	Pigment Yellow 83	21108	■	—	—
NOVOTEX RED ARCY	Pigment Red 48:2	15865:2	—	■	●
NOVOTEX RED F4RK	Pigment Red 170	12475	■	—	●
NOVOTEX CARMINE FBB	Pigment Red 146	12485	■	—	●

OEKO-TEX 100

For Oeko-Tex 100 information please contact Clariant Corporate Product Stewardship.

1.10

AGROCER

The pigments of the Agrocere range are specially developed for the use in agricultural applications with very high color strength and excellent fastness properties.

Agrocere pigments are highly suitable in seed treatment pesticide formulations, especially when a high solid content is desired, but also for the coloration of seed coating products.

NAME	COLOUR INDEX	COLOUR INDEX NO.	AGRICULTURAL SECTOR
AGROCER YELLOW 001	Pigment Yellow 1	11680	■
AGROCER RED 112	Pigment Red 112	12370	■
AGROCER RED 482	Pigment Red 48:2	15865:2	■
AGROCER VIOLET 023	Pigment Violet 23	51319	■
AGROCER BLUE 153	Pigment Blue 15:3	74160	■
AGROCER GREEN 007	Pigment Green 7	74260	■

2

SPECIAL GRADES

- 2.1 Numerical code for alteration of standards and special grades
- 2.2 Transparent grades for effect paints
- 2.3 Opaque pigments for lead-free pigmentation
- 2.4 Easily dispersible pigments
- 2.5 P grades
- 2.6 Cosmetic pigments
- 2.7 NIP products
 - 2.7.1 Ink Jet pigments
 - 2.7.2 Ink Jet pigment preparations
 - 2.7.3 Ink Jet dyes
 - 2.7.4 Toner pigments
 - 2.7.5 Toner pigment preparations
 - 2.7.6 Charge Control Agents
 - 2.7.7 Waxes
 - 2.7.8 HDK - pyrogenic silica
- 2.8 LHC-Grades

2.1

NUMERICAL CODE FOR ALTERATION OF STANDARDS AND SPECIAL GRADES

In the course of improving or further developing existing pigments/pigment preparations for special fields of application or special processing methods there is a need for modified grades or special grades, which are identified by adding a two-digit number to the pigment name. Each further modification to one and the same pigment is identified by the next consecutive number.

We use the following system:

- 01 - 19 Alteration of standards and improvements to individual pigments (e.g. higher tinctorial strength, change in shade etc.).
- 20 - 29 Easily dispersible pigments for publication gravure printing inks. High tinctorial strength, very good rheological properties. N grades do not strike through.

PERMANENT YELLOW DHG N26
PERMANENT YELLOW DHG N22

- 30 - 39 Alteration of standards or improvements to pigment preparations and flushed pastes with their own range name.
- 40 - 49 Pigments with improved dispersibility primarily for air-drying paints.

HANSA YELLOW 10G 41 GRAN.

LITERATURE

Pattern card DP 5018 E »Decorative paints, industrial paints, automotive paints«

- 70 - 79 Highly opaque pigments with very good flow properties.

HANSA BRILLIANT YELLOW 2GX 70
HANSA BRILLIANT YELLOW 2GX 70-S
NOVOPERM YELLOW 5GD 71
HOSTAPERM YELLOW H4G
HOSTAPERM YELLOW H4G 70
NOVOPERM YELLOW HR 70
NOVOPERM YELLOW M2R 70
NOVOPERM ORANGE H5G 70
NOVOPERM ORANGE HL 70
NOVOPERM ORANGE HL 70-NF
PERMANENT ORANGE RL 70
PERMANENT ORANGE 2RLD 71
HOSTAPERM RED E2B 70
PERMANENT RED FGR 70
NOVOPERM RED HF3S 70
HOSTAPERM RED D3G 70
HOSTAPERM RED D2G 70
NOVOPERM RED F2RK 70
NOVOPERM RED F3RK 70
GRAPHTOL RED F3RK 70

LITERATURE

Pattern card DP 5018 E »Decorative paints, industrial paints, automotive paints«

- 80 - 89 Special pigments for the efficient manufacture of sheet-fed and web offset printing inks. High gloss, low viscosity, very easily dispersible.

PERMANENT YELLOW GRY 82
PERMANENT YELLOW GRX 83
PERMANENT YELLOW GRX 86
PERMANENT YELLOW GRS 80

2.2

TRANSPARENT GRADES FOR EFFECT PAINTS

Special grades with very high transparency.

HOSTAPERM ORANGE GR
HOSTAPERM SCARLET GO
HOSTAPERM SCARLET GO TRANSP.
HOSTAPERM RED P2GL-WD
HOSTAPERM RED E5B 02
HOSTAPERM PINK E
HOSTAPERM PINK E TRANSP. 01
HOSTAPERM PINK EB TRANSP.
HOSTAPERM RED VIOLET ER 02
HOSTAPERM VIOLET BL 01
HOSTAPERM VIOLET RL SPEC.
HOSTAPERM VIOLET RL-NF

HOSTAPERM BLUE BT-728-D
HOSTAPERM BLUE BT-729-D
HOSTAPERM BLUE BT-627-D
HOSTAPERM BLUE A4R
HOSTAPERM BLUE BT-617-D
HOSTAPERM BLUE B2G-L
HOSTAPERM GREEN GNX
HOSTAPERM BROWN HFR 01

LITERATURE

Pattern card DP 5018 E »Decorative paints,
industrial paints, automotive paints«

2.3

OPAQUE PIGMENTS FOR LEAD-FREE PIGMENTATIONS

HANSA BRILLIANT YELLOW 2GX 70
HANSA BRILLIANT YELLOW 2GX 70-S
NOVOPERM YELLOW 5GD 71
HOSTAPERM YELLOW H4G
HOSTAPERM YELLOW H4G 70
NOVOPERM YELLOW HR 70
NOVOPERM YELLOW M2R 70
NOVOPERM ORANGE H5G 70
NOVOPERM ORANGE HL 70
NOVOPERM ORANGE HL 70-NF

PERMANENT ORANGE 2RLD 71
PERMANENT ORANGE RL 70
PERMANENT RED FGR 70
NOVOPERM RED HF3S 70
HOSTAPERM RED D3G 70
HOSTAPERM RED D2G 70
NOVOPERM RED F2RK 70
NOVOPERM RED F3RK 70
HOSTAPERM RED E2B 70

2.4

EASILY DISPERSIBLE PIGMENTS

In the paint manufacturing process, one of the most important steps is the dispersion of pigments. Clariant has developed a new range of organic pigments: The »Easily Dispersible pigments«, called »ED pigments«, to simplify this process. As the name suggests, ED pigments can be easily incorporated into paint systems with a dissolver, and without an additional milling step. This is an innovative approach for paint manufacturing which offers efficiency as well as savings in raw materials and energy. To achieve »Easily Dispersible pigments« characteristics of organic pigments, Clariant has developed an economic production process which includes surface treatment of the pigments with highly efficient and widely compatible dispersing additives.

EDS Pigments (EDS = Easily Dispersible Solvent)
Dissolver dispersible pigments for solvent-based industrial coating systems.

EDW Pigments (EDW = Easily Dispersible Water)
Easily dispersible pigments for water-based pigment dispersions in decorative paint.

For further information, please refer to our ED brochure DP 6194 E.

LITERATURE

Brochure DP 6194 E
»Easily dispersible pigments -
The easy way to perfect colors«

2.5

P GRADES

Special grades for the manufacture of solvent-containing packaging gravure and flexographic printing inks.

NOVOPERM YELLOW P-HG
PERMANENT YELLOW P-G
PERMANENT YELLOW P-GRL 06
PERMANENT YELLOW P-GRL 07
NOVOPERM YELLOW P-M3R
NOVOPERM YELLOW P-HRE
PERMANENT RED P-FK
PERMANENT RUBINE P-F7B
PERMANENT RUBINE P-L7B 01
HOSTAPERM VIOLET P-RL

2.6

COSMETIC PIGMENTS

Colorants to be used in cosmetic products and toiletries (e.g. tooth paste, soap, shampoo, or lipstick) are subject to several regulations. Main regulations are issued in the USA, the EU, and Japan. They are used as guidelines by most countries in the respective regions.

The different cosmetic regulations also define permitted use categories or application fields for colorants. In the US, colorants for food, drugs, and cosmetics are regulated by the Food and Drug Administration (FDA).

Synthetic organic colorants for food, drugs, and cosmetics intended for sale in the United States must have prior certification of the FDA. In Japan, colorants for cosmetics and drugs are regulated by the Pharmaceutical Affairs Law. The European Union defines the requirements for cosmetic colorants in the »Regulation on cosmetic products No 1223/2009«.

LITERATURE

Brochure DP 5023 E
»Living Colors - Solutions for Home & Personal Care Products«

NAME	COLOUR INDEX	COLOUR INDEX NO.	COSMETIC LABEL NAME
COSMETIC PINK RC 01	Pigment Red 181 / Vat Red 1	73360	USA: D&C Red No. 30 EU: CI 73360 Japan: Aka 226
COSMETIC RED 3B	Pigment Red 57:1	15850:1	EU: CI 15850
HOSTAPERM BLUE A4R	Pigment Blue 15:1	74160	EU: CI 74160
HOSTAPERM GREEN GNX-C	Pigment Green 7	74260	EU: CI 74260
PERMANENT CARMINE FB 01	Pigment Red 5	12490	EU: CI 12490
PV FAST BLUE BG	Pigment Blue 15:3	74160	EU: CI 74160

2.7

NIP PRODUCTS

LITERATURE

Brochure DP 8530 E
»Products for Non Impact Printing«

2.7.1 INK JET PIGMENTS

Specially developed range of ink jet pigments. Additional pigments recommended for ink jet applications (Graphtol, Novoperm, PV Fast, Hostaperm).

INK JET GRADE PIGMENTS

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	MAIN APPLICATION		
			Water	Solvent	UV curing
INK JET YELLOW 5GX-W VP 5163	PY. 74	Monoazo	■	—	—
INK JET YELLOW 4GC	PY. 155	Bisacetoacetarylide	■	■	■
INK JET YELLOW 4G	PY. 155	Bisacetoacetarylide	■	■	■
INK JET YELLOW H4G VP 3853	PY. 151	Benzimidazolone	—	■	■
INK JET YELLOW H2G	PY. 120	Benzimidazolone	—	■	■
INK JET MAGENTA E5B 02	PV. 19	Quinacridone	■	■	■
INK JET MAGENTA E7B VP 3958	—	Quinacridone	■	■	■
INK JET MAGENTA E 02	P.R. 122	Quinacridone	■	■	■
INK JET CYAN BG 10	P.B. 15:3	Phthalocyanine	■	■	■

ADDITIONAL RECOMMENDED HIGH PERFORMANCE PIGMENTS FOR INK JET APPLICATION

PV FAST YELLOW HR 02	PY. 83	Diarylide	—	■	—
NOVOPERM YELLOW P-M3R	PY. 139	Isoindoline	—	■	■
GRAPHTOL CARMINE HF4C	P.R. 185	Benzimidazolone	—	■	—
NOVOPERM CARMINE HF3C	P.R. 176	Benzimidazolone	—	■	■
PV FAST PINK E 01	P.R. 122	Quinacridone	—	■	■
PV FAST BLUE BG	P.B. 15:3	Phthalocyanine	■	■	—
HOSTAPERM BLUE BT 617 D	P.B. 15:4	Phthalocyanine	■	■	■

ADDITIONAL RECOMMENDED MID PERFORMANCE PIGMENTS FOR INK JET APPLICATION

TONER YELLOW HG	PY. 180	Benzimidazolone	—	■	■
PV FAST YELLOW HG 01	PY. 180	Benzimidazolone	—	■	■
PERMANENT CARMINE FBB 02	P.R. 146	Monoazo	—	■	—
PERMANENT RUBINE P-L7B 01	P.R. 57:1	BONA, Ca lake	—	■	—
PERMANENT RUBINE F6B 01	P.R. 184	Monoazo	—	■	—
PERMANENT PINK F3B 01	P.R. 147	Monoazo	—	■	—

2.7.2 INK JET PIGMENT PREPARATIONS

Aqueous pigment preparations available as Hostajet PT.

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	PIGMENT CONTENT	PARTICLE SIZE (typical d ₅₀)	LIGHT FASTNESS ¹	CHARACTERISTICS
Product number			approx. %	nm		
HOSTAJET YELLOW 4G-PT VP 2669 188982	P.Y. 155	Bisacetoacetarylide	20	100	6-7	High performance green shade yellow
HOSTAJET RED D3G-PT VP 5121 272702	P.R. 254	DPP	20	170	6-7	High performance mid shade red
HOSTAJET MAGENTA E5B-PT VP 3565 229947	P.V. 19	Quinacridone	20	80	7-8	High performance red shade magenta
HOSTAJET MAGENTA E7B-PT VP 5122 277919	-	Quinacridone	20	50	6-7	High performance mid shade magenta
HOSTAJET MAGENTA E-PT 188989	P.R. 122	Quinacridone	20	70	7-8	High performance standard magenta
HOSTAJET CYAN BG-PT 188993	P.B. 15:3	Phthalocyanine	20	80	8	High performance standard cyan
HOSTAJET GREEN 8G-PT VP 5154 273302	P.G. 36	Phthalocyanine	20	45	7-8	High performance yellow shade green
HOSTAJET BLACK O-PT 187505	P.Bl. 7	Carbon Black	15	70	8	High performance standard black

1 The fastness properties were tested according to DIN ISO 12040 with an aqueous based ink jet ink containing 5% pigment applied onto plain paper.

2.7

NIP PRODUCTS

2.7.3 INK JET DYES - SOLVENT BASED

Powder grade dyes with very good solubility in alcohols, ketones and glycol esters (Savinyl, Duasyn).

SAVINYL DYES FOR INK JET INKS

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	LIGHT FASTNESS ¹	CHARACTERISTICS
Product number				
SAVINYL YELLOW RLS 103319	S.Y. 83:1	Azo 1:2 Cr-complex	7-8	Standard yellow with good solubility in ketones
SAVINYL RED 3BLS 103337	S.R. 91	Azo 1:2 Co-complex	6	Magenta with good solubility in ketones
SAVINYL PINK 6BLS 103526	S.R. 127	Azo 1:2 Cr-complex	4	Standard magenta with good solubility in appropriate ketones
SAVINYL BLUE GLS 103330	S.B. 44	Phthalocyanine	6	Standard cyan with good solubility in alcohols and ketones
SAVINYL BLACK RLSN 104213	S.Bl. 45	Azo 1:2 Cr-complex	7	Standard black with good solubility in ketones

¹ The fastness properties were tested according to DIN ISO 12040 on a print containing 5 % Savinyl dye in vinyl copolymer, applied at 2-3 g/m² on aluminum foil.

DUASYN DYE FOR INK JET INKS

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	LIGHT FASTNESS ¹	CHARACTERISTICS
Product number				
DUASYN BLACK A-RG 108191	S. Bl. 27	Azo 1:2 Cr-complex	7	Standard black with good solubility in MEK

¹ The fastness properties were tested according to DIN ISO 12040 on a print containing 5 % dye in vinyl copolymer, applied at 2-3 g/m² on aluminum foil.

2.7.3 INK JET DYES - WATER BASED

Duasyn-SF/Duasynjet-SF grades are mainly for desktop (office) use and are specially designed for water based ink jet inks.

The following properties are typical for all highly salt minimized Duasyn/Duasynjet-SF grades used mainly for high performance ink jet ink systems.

SPECIAL INK JET GRADE SF DYES

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	DYE CONTENT	LIGHT FASTNESS ¹	CHARACTERISTICS
Product number			approx. %		
DUASYN YELLOW 3GF-SF LIQ. 136353	D.Y. 132	Azo	8	4-5	High performing red shade yellow
DUASYN ACID YELLOW XX-SF² 213363	A.Y. 23	Azo	100	4-5	Standard red shade yellow
DUASYN ACID YELLOW XX-SF LIQ. 120115	A.Y. 23	Azo	8	4-5	Standard red shade yellow
DUASYN BRILLIANT RED F3B-SF LIQ. 271731	R.R. 180	Azo	15	4	Standard magenta, reactive dye
DUASYNJET CYAN FRL-SF LIQ. 197434	D.B. 199	Phthalocyanine	10	7	Standard green shade cyan
DUASYN CYAN R-SF LIQ. VP 5160 277483	D.B. 199	Phthalocyanine	10	7	Reddish shade cyan
DUASYN ACID BLUE AE-SF 30 LIQ. 243248	A.B. 9	Triarylmethane	30	2-3	Standard cyan for shading
DUASYN BLACK HEF-SF LIQ. 201312	D.Bl. 168	Azo	19	5	Standard black

Duasyn dye for economic ink jet inks:

COMMERCIAL GRADE DYES

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	DYE CONTENT	LIGHT FASTNESS ¹	CHARACTERISTICS
Product number			approx. %		
DUASYN MAGENTA CR LIQ. 243248	-	Azo	8	4-5	Highly brilliant shade magenta reactive dye

1 The fastness properties were tested according to DIN ISO 12040 with an aqueous based ink jet ink containing 4% Duasyn black dye or 2.5% Duasyn/Duasynjet color dye applied onto plain paper.

2 Powder form

2.7

NIP PRODUCTS

2.7.4 TONER PIGMENTS

Specially developed range of toner pigments with specified triboelectric properties (Toner).

Additional recommended pigments for toner applications (Permanent, Graphtol, Hansa, Novoperm, PV Fast, Hostaperm).

TONER PIGMENTS FOR PROCESS COLORS

PRODUCT	COLOR	COLOUR INDEX	CHEMICAL CLASS	LIGHT FASTNESS
				1/1 SD*
TONER YELLOW 5GXT	Yellow	P.Y. 74	Monoazo	5
TONER YELLOW 4G	Yellow	P.Y. 155	Bisacetoacetarylide	7-8
TONER YELLOW 3GP	Yellow	P.Y. 155	Bisacetoacetarylide	7-8
TONER YELLOW HG	Yellow	P.Y. 180	Benzimidazolone	6-7d
TONER MAGENTA E 02	Magenta	P.R. 122	Quinacridone	7
TONER MAGENTA E	Magenta	P.R. 122	Quinacridone	7-8

* The light fastness was determined in a draw down in a typical polyester toner resin.

ADDITIONAL RECOMMENDED PIGMENTS** FOR TONER APPLICATIONS

HANSA YELLOW 5GX 01	Yellow	P.Y. 74	Monoazo	6
GRAPHTOL YELLOW GG	Yellow	P.Y. 17	Diarylide	4
PV FAST YELLOW HG 01	Yellow	P.Y. 180	Benzimidazolone	7
NOVOPERM YELLOW FGL	Yellow	P.Y. 97	Monoazo	7d
GRAPHTOL YELLOW H2R	Yellow	P.Y. 139	Isoindoline	8
PERMANENT ORANGE RL 01	Orange	P.O. 34	Disazopyrazolone	4
PERMANENT CARMINE FBB 02	Blue-shade red	P.R. 146	Monoazo	6
INK JET MAGENTA E5B 02	Magenta	P.V. 19	Quinacridones	7d
PERMANENT RUBINE F6B	Blue-shade red	P.R. 184	Monoazo	5
HOSTAPERM BLUE B2G	Cyan	P.B. 15:3	Phthalocyanine	8
PV FAST BLUE BG	Cyan	P.B. 15:3	Phthalocyanine	8
PV FAST GREEN GNX	Green	P.G. 7	Phthalocyanine	8

* The light fastness was determined in a draw down in a typical polyester toner resin.

** Please note that these products were standardized in different applications like paints, etc.

2.7.5 TONER PIGMENT PREPARATIONS

Non-dusting, easy-to-disperse concentrates available as standard or tailor-made products (Hostacopy).

Liquid dispersions are available on request.

PIGMENT PREPARATIONS FOR TONERS

PRODUCT	COLOR	COLOUR INDEX	PIGMENT	PIGMENT CONTENT
				%
HOSTACOPY HG-Y 101	Yellow	P.Y. 180	Toner Yellow HG	40
HOSTACOPY FBB 02-M 101	Magenta	P.R. 146	Permanent Carmine FBB 02	40
HOSTACOPY E 02-M 101	Magenta	P.R. 122	Toner Magenta E 02	40
HOSTACOPY BG-C 101	Cyan	P.B. 15:3	PV Fast Blue BG	40

2.7.6 CHARGE CONTROL AGENTS FOR TONERS

The colorless Charge Control Agents (CCAs) are designed for multi-purpose applications, i. e., for color toners as well as for black toners. All CCAs are compatible with common toner resins like styrene-acrylic, polyester, epoxy, etc..

CHARGE CONTROL AGENTS FOR TONERS

PRODUCT	POLARITY	COLOR	CHEMICAL CLASS
COPY CHARGE N4P	Negative	Colorless	Modified inorganic polymeric compound
COPY CHARGE N5P-01	Negative	Colorless	Modified inorganic polymeric compound

2.7 NIP PRODUCTS

2.7.7 WAXES

Clariant's waxes for toner are not only additives which perform as release agents in modern toners, but they are also designed as special products for easier dispersion of CCAs and pigments in the toner resin.

Clariant offers a wide range of waxes. Detailed information can be found in our separate brochure named »Licowax®, Ceridust®, Licolub®, Licomont®« (DA 8048 E).

WAXES FOR TONERS

PRODUCT	COLOR	MELTING TEMPERATURE	MELT VISCOSITY
		°C	mPa·s/°C
LICOWAX E	Yellowish	- 81	- 30 /100
CERIDUST 2051	White	- 107	< 20 /140
LICOWAX PE 130	White	- 130	- 300 /140
LICOWAX C	White	- 142	< 50 /160
LICOCENE PP 6102	White	- 145	- 60 /170

2.7.8 HDK – PYROGENIC SILICA

Clariant offers Wacker's pyrogenic silicas for modern toners in Japan, Korea, US and Canada. For detailed information please contact our local sales representatives.

2.8

LHC-GRADES

The LHC-range contains high quality, low halogen controlled pigments and dyes to support industries to reduce their halogenated substances levels.

LITERATURE

Flyer DP 6198 E
»High performance colorants for non-halogenated plastic compounds«

LHC-GRADES

NAME	COLOUR INDEX	COLOUR INDEX NO.	PE/PP	PS/SAN	ABS	PC	POM	PA 6	PET	PBT	PPMA
GRAPHTOL YELLOW 3GP-LHC	P. Y.155	200310	■	■	—	—	●	—	—	—	●
PV FAST YELLOW H4G-LHC	P. Y.151	13980	■	●	●	—	—	—	—	—	—
GRAPHTOL YELLOW H2R-LHC	P. Y.139	56298	■	—	—	—	—	—	—	—	—
PV FAST YELLOW H3R-LHC	P. Y.181	11777	■	■	■	—	■	—	—	■	●
PV FAST ORANGE H2GL-LHC	P. O. 64	12760	■	■	■	●	●	—	—	●	●
PV FAST ORANGE 6RL-LHC	P. O. 68	486150	■	■	■	■	■	■	—	■	●
PV FAST RED B-LHC	P. R. 149	71137	■	■	■	■	■	●	■	■	■
PV FAST RED HB-LHC	P. R. 247	15915	■	■	■	■	—	—	—	■	●
GRAPHTOL RED F3RK-LHC	P. R. 170	12475	■	—	—	—	—	—	—	—	—
GRAPHTOL CARMINE HF3C-LHC	P. R. 176	12515	■	■	—	■	—	—	—	—	■
PV FAST PINK E-LHC	P. R. 122	73915	■	■	■	■	●	●	●	●	●
PV FAST BLUE A4R-LHC	P. B. 15:1	74160	■	■	■	●	●	●	●	●	■
PV FAST BLUE BG-LHC	P. B. 15:3	74160	■	■	■	■	■	■	■	■	■
POLYSYNTHREN YELLOW RL-LHC	P. Y. 192	—	—	—	—	—	—	■	●	●	—
SOLVAPERM RED 2G-LHC	S. R. 179	564150	—	■	■	■	—	■	■	■	■

3

PIGMENT PREPARATIONS

- 3.1 Colanyl 100
- 3.2 Colanyl 500
- 3.3 Hostatint 500
- 3.4 Hostatint A 100
- 3.5 Hostatint E
- 3.6 Hostafine
- 3.7 Renol HW 30
- 3.8 Flexonyl / Flexonyl SP
- 3.9 Flexonyl A
- 3.10 Flexonyl WF
- 3.11 Cosmenyl
- 3.12 Cosmenyl gran.
- 3.13 Viscofil
- 3.14 Agrocet disp.
- 3.15 Hostaprint
- 3.16 Hostasin

3.1

COLANYL 100

Colanyl 100 is a range of aqueous, binder-free pigment preparations that is manufactured without using alkyl phenol ethoxylated (APEO) additives. The main application fields of Colanyl 100 range are dispersion paints and renderings/plaster based on aqueous polymer dispersions. They are also compatible with other binder systems, e. g. water-based industrial paints, but the maximum dosage level and compatibility of the binder-free Colanyl 100 has to be checked in the customer paint system itself. By using Colanyl 100 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Colanyl 100 pigment preparations are miscible in all proportions with each other. By adding Colanyl Extender MS 530, the color strength of the Colanyl 100 can be adjusted.

The data presented in this table is meant to provide a general indication and does not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card DP 7064 ED
»Colanyl 100 - Pigment preparations«

Flyer DP 6123 E
»Colanyl 100 - Tinting pastes
for water-based systems«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CONTENT	WATER	GLYCOL	DENSITY
			%	%	%	%	g/cm ³
COLANYL YELLOW 10G 131	Pigment Yellow 3	11710	48	56	24	20	1.21
COLANYL YELLOW 5GX 131	Pigment Yellow 74	11741	46	54	26	20	1.15
COLANYL YELLOW NCG 131	Pigment Yellow 16	20040	44	53	27	20	1.16
COLANYL YELLOW FGL 132	Pigment Yellow 97	11767	38	52	30	18	1.13
COLANYL YELLOW H3G 130	Pigment Yellow 154	11781	30	40	43	17	1.16
COLANYL YELLOW 2GXD 130	Pigment Yellow 74	11741	48	57	18	25	1.19
COLANYL YELLOW G 132	Pigment Yellow 1	11680	50	56	24	20	1.18
COLANYL YELLOW HR 130	Pigment Yellow 83	21108	35	55	30	15	1.15
COLANYL YELLOW HRD 131	Pigment Yellow 83	21108	50	58	27	15	1.20
COLANYL RED GG 131	Pigment Orange 5	12075	45	56	24	20	1.20
COLANYL RED FRLL 131	Pigment Red 9	12460	48	54	26	20	1.18
COLANYL SCARLET GO 130	Pigment Red 168	59300	35	51	29	20	1.22
COLANYL RED FGRG 130	Pigment Red 112	12370	47	53	21	26	1.19
COLANYL RED FGR 131	Pigment Red 112	12370	45	53	28	19	1.18
COLANYL CARMINE FB 130	Pigment Red 5	12490	40	51	29	20	1.15
COLANYL RED E3B 130	Pigment Violet 19	73900	32	47	28	25	1.13
COLANYL PINK E 130	Pigment Red 122	73915	20	36	44	20	1.10
COLANYL VIOLET RL 131	Pigment Violet 23	51319	30	45	37	18	1.13
COLANYL BLUE A2R 131	Pigment Blue 15:1	74160	40	51	31	18	1.20
COLANYL BLUE B2G 131	Pigment Blue 15:3	74160	47	54	26	20	1.26
COLANYL GREEN GG 131	Pigment Green 7	74260	50	59	26	15	1.36
COLANYL BLACK PR 130	Pigment Black 7	77266	30	38	37	25	1.18
COLANYL BLACK N 131	Pigment Black 7	77266	42	49	31	20	1.27
COLANYL OXIDE YELLOW BV 100	Pigment Yellow 184	771740	65	72	18	10	2.21
COLANYL OXIDE YELLOW CR 130	Pigment Brown 24	77310	66	80	5	15	2.17
COLANYL OXIDE YELLOW R 132	Pigment Yellow 42	77492	66	73	9	18	1.98
COLANYL OXIDE RED G 130	Pigment Red 101	77491	65	70	16	14	2.19
COLANYL OXIDE RED B 130	Pigment Red 101	77491	72	77	9	14	2.41
COLANYL OXIDE BLUE COR 100	Pigment Blue 28	77346	60	67	15	18	2.01
COLANYL OXIDE GREEN CO 130	Pigment Green 50	77377	70	82	8	10	2.34
COLANYL OXIDE GREEN G 131	Pigment Green 17	77288	75	80	10	10	2.58
COLANYL OXIDE OLIVE GS 130	Pigment Yellow 42/ Pigment Black 11	77492 77499	61	71	9	20	1.76
COLANYL OXIDE BLACK B 100	Pigment Black 11	77499	50	62	18	20	1.86
COLANYL WHITE R 130	Pigment White 6	77891	70	76	5	19	2.08

3.2

COLANYL 500

Colanyl 500 is a range of aqueous, binder-free pigment preparations that is manufactured without using alkyl phenol ethoxylated (APEO) additives. These aqueous pigment preparations are compatible with water-based low VOC decorative paints [1].

The main application fields of Colanyl 500 range are modern dispersion paints and renderings/plaster based on aqueous polymer dispersions. They are also compatible with other binder systems, e. g. water-based industrial paints, but the maximum dosage level and compatibility of the binder-free Colanyl 500 has to be checked in the customer paint system itself. By using Colanyl 500 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Colanyl 500 pigment preparations are miscible in all proportions with each other. By adding Colanyl Extender MS 530, the color strength of Colanyl 500 can be adjusted.

The data presented in this table is meant to have a general indication and does not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card DP 7074 ED
»Colanyl 500 - Pigment preparations«

Flyer DP 6124 E
»Colanyl 500 - Pigment preparations«

[1] As defined in EU directive 2004/42/EC, annex II, phase II. Colanyl Blue B2G 500 and Colanyl Violet RL 500 include up to approx. 2200 ppm VOC (Volatile Organic Compounds). All other Colanyl 500 preparations include up to approx. 800 ppm VOC (VOC-test method DIN EN ISO 17895). VOC standards and regulations vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CONTENT	WATER	DENSITY
			%	%	%	g/cm ³
COLANYL YELLOW 5GX 500	Pigment Yellow 74	11741	40	58	42	1.14
COLANYL YELLOW FGL 500	Pigment Yellow 97	11767	38	65	35	1.10
COLANYL YELLOW H3G 500	Pigment Yellow 154	11781	30	47	53	1.13
COLANYL YELLOW 2GXD 500	Pigment Yellow 74	11741	41	61	39	1.18
COLANYL YELLOW G 500	Pigment Yellow 1	11680	50	64	36	1.18
COLANYL YELLOW HRD 500	Pigment Yellow 83	21108	50	69	31	1.20
COLANYL RED GG 500	Pigment Orange 5	12075	45	67	33	1.19
COLANYL SCARLET GO 530	Pigment Red 168	59300	36	62	38	1.25
COLANYL RED D3GD 500	Pigment Red 254	56110	50	66	34	1.24
COLANYL RED HF3S 500	Pigment Red 188	12467	40	60	40	1.18
COLANYL RED FGRD 500	Pigment Red 112	12370	45	61	39	1.17
COLANYL RED FGR 530	Pigment Red 112	12370	47	70	30	1.19
COLANYL RED E3B 500	Pigment Violet 19	73900	30	59	41	1.14
COLANYL PINK E 531	Pigment Red 122	73915	20	44	56	1.09
COLANYL PINK E-WD 530	Pigment Red 122	73915	32	57	43	1.12
COLANYL VIOLET RL 500	Pigment Violet 23	51319	30	63	37	1.13
COLANYL BLUE A2R 500	Pigment Blue 15:1	74160	40	62	38	1.22
COLANYL BLUE B2G 500	Pigment Blue 15:3	74160	45	61	39	1.24
COLANYL GREEN GG 500	Pigment Green 7	74260	50	71	29	1.35
COLANYL BLACK N 500	Pigment Black 7	77266	43	63	37	1.27
COLANYL OXIDE YELLOW BV 530	Pigment Yellow 184	771740	65	80	20	2.22
COLANYL OXIDE YELLOW CR 530	Pigment Brown 24	77310	65	78	22	2.18
COLANYL OXIDE YELLOW R 531	Pigment Yellow 42	77492	64	78	22	1.99
COLANYL OXIDE RED G 530	Pigment Red 101	77491	65	79	21	2.14
COLANYL OXIDE RED B 530	Pigment Red 101	77491	70	83	17	2.34
COLANYL OXIDE BLUE COR 530	Pigment Blue 28	77346	62	79	21	2.00
COLANYL OXIDE GREEN G 530	Pigment Green 17	77288	75	87	13	2.55
COLANYL OXIDE BLACK B 530	Pigment Black 11	77499	53	71	29	1.79
COLANYL WHITE R 500	Pigment White 6	77891	65	82	18	2.05
COLANYL EXTENDER MS 530	—	—	60	78	22	1.70

3.3

HOSTATINT 500

Hostatint 500 is a range of aqueous, binder-free pigment preparations that is manufactured without using alkyl phenol ethoxylated (APEO) additives. These multipurpose pigment preparations are compatible with water-based and solvent-based decorative coatings, especially low VOC decorative coatings [1]. They are also compatible with some other binder systems, e.g. water-based or solvent-based industrial paints, but the maximum dosage level and compatibility of the binder-free Hostatint 500 has to be checked in the customer paint system itself. By using Hostatint 500 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed.

Furthermore Hostatint 500 pigment preparations are miscible in all proportions with each other. By adding Hostatint Extender MS 500 or Hostatint Extender CC 500, the color strength of Hostatint 500 can be adjusted.

The data presented in this table is meant to provide a general indication and do not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card DP 7088 ED
»Hostatint 500 - Multipurpose tinting pastes for modern low VOC decorative coatings«

Flyer DP 6129 E
»Hostatint 500 - Multipurpose tinting pastes«

[1] As defined in EU directive 2004/42/EC, annex II, phase II. VOC standards and regulations vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CONTENT	WATER	DENSITY
			%	%	%	g/cm ³
HOSTATINT YELLOW 12G 500	Pigment Yellow 3	11710	40	63	37	1.20
HOSTATINT YELLOW 4GX 500	Pigment Yellow 73	11738	38	63	37	1.17
HOSTATINT YELLOW FGL 530	Pigment Yellow 97	11767	40	65	35	1.14
HOSTATINT YELLOW H3G 500	Pigment Yellow 154	11781	30	63	37	1.14
HOSTATINT YELLOW 2GXD 500	Pigment Yellow 74	11741	40	65	35	1.18
HOSTATINT YELLOW HR 530	Pigment Yellow 83	21108	15	57	43	1.08
HOSTATINT ORANGE GR 500	Pigment Orange 43	71105	22	54	46	1.11
HOSTATINT ORANGE 2RLD 500	Pigment Orange 74	—	25	57	43	1.11
HOSTATINT ORANGE HLD 530	Pigment Orange 36	11780	20	52	48	1.10
HOSTATINT SCARLET GO 500	Pigment Red 168	59300	35	61	39	1.24
HOSTATINT RED FGR 500	Pigment Red 112	12370	21	48	52	1.15
HOSTATINT RED D3GD 500	Pigment Red 254	56110	30	62	38	1.19
HOSTATINT PINK E 530	Pigment Red 122	73915	20	44	56	1.10
HOSTATINT VIOLET RL 530	Pigment Violet 23	51319	20	59	41	1.10
HOSTATINT BLUE B2G 500	Pigment Blue 15:3	74160	30	57	43	1.16
HOSTATINT GREEN GG 500	Pigment Green 7	74260	30	55	45	1.21
HOSTATINT BLACK GR 500	Pigment Black 7	77266	35	57	43	1.22
HOSTATINT OXIDE YELLOW BV 530	Pigment Yellow 184	771740	65	85	15	2.26
HOSTATINT TRANSOXIDE YELLOW R 500	Pigment Yellow 42	77492	35	62	38	1.38
HOSTATINT OXIDE YELLOW R 500	Pigment Yellow 42	77492	60	81	19	1.88
HOSTATINT TRANSOXIDE RED B 500	Pigment Red 101	77491	35	61	39	1.40
HOSTATINT OXIDE RED B 500	Pigment Red 101	77491	68	86	14	2.26
HOSTATINT UMBER KT 500	Mix	—	36	79	21	1.74
HOSTATINT OXIDE BLUE COR 500	Pigment Blue 28	77346	65	85	15	2.03
HOSTATINT OXIDE GREEN CO 500	Pigment Green 50	77377	65	86	14	2.12
HOSTATINT OXIDE GREEN G 500	Pigment Green 17	77288	67	92	8	2.17
HOSTATINT OXIDE BLACK B 530	Pigment Black 33	77537	70	91	9	2.35
HOSTATINT WHITE R 500	Pigment White 6	77891	70	89	11	2.20
HOSTATINT EXTENDER MS 500	—	—	55	78	22	1.59
HOSTATINT EXTENDER CC 530	—	—	30	61	39	1.21

3.4

HOSTATINT A 100

The Hostatint A 100 pastes are solvent-containing pigment preparations based on a carrier resin (aldehyde resin) that was developed specially for industrial paint applications. The pastes are produced within narrow tolerances of shade and color strength allowing highly consistent paint production path with manual and automatic dispensers. The solvent and additives are carefully selected to avoid hazardous labeling or special storage requirements associated with their flammability. Hostatint A 100 shows good compatibility and can be added in the usual amounts to virtually all types of solvent-based industrial paint systems.

The Colour Index data relate to the basic pigment. The data given in the table may vary slightly because these pigment preparations are standardized in respect to tinctorial strength.

LITERATURE

Pattern card DP 7065 ED
»Hostatint A 100 - Pigment preparations«

Flyer DP 6112 E
»Hostatint A 100 - Pigment preparations«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CONTENT	SOLVENT CONTENT	DENSITY
			%	%	%	g/cm ³
HOSTATINT YELLOW A-F2G 100	Pigment Yellow 194	11785	36	59	41	1.19
HOSTATINT YELLOW A-H3G 100	Pigment Yellow 154	11781	42	65	35	1.22
HOSTATINT YELLOW A-HRD 100	Pigment Yellow 83	21108	28	52	48	1.16
HOSTATINT ORANGE A-2RLD 100	Pigment Orange 74	—	27	54	46	1.18
HOSTATINT ORANGE A-HLD 100	Pigment Orange 36	11780	43	60	40	1.26
HOSTATINT RED A-D3GD 100	Pigment Red 254	56110	35	63	37	1.21
HOSTATINT RED A-F3RKD 100	Pigment Red 170	12475	39	62	38	1.19
HOSTATINT PINK A-E 100	Pigment Red 122	73915	19	45	55	1.12
HOSTATINT RED VIOLET A-ER 100	Pigment Violet 19	73900	19	49	51	1.13
HOSTATINT VIOLET A-RL 100	Pigment Violet 23	51319	12	40	60	1.12
HOSTATINT BLUE A-BG 100	Pigment Blue 15:3	74160	24	60	40	1.17
HOSTATINT GREEN A-GNX 100	Pigment Green 7	74260	24	51	49	1.21
HOSTATINT BLACK A-N 100	Pigment Black 7	77266	21	55	45	1.17
»R« GRADES †						
HOSTATINT YELLOW A-2GXD 131 R	Pigment Yellow 74	11741	31	78	22	1.05
HOSTATINT RED A-FGRD 131 R	Pigment Red 112	12370	25	78	22	1.03
HOSTATINT OXIDE YELLOW A-BV 100	Pigment Yellow 184	771740	64	80	20	2.25
HOSTATINT OXIDE YELLOW A-CR 100	Pigment Brown 24	77310	64	82	18	2.08
HOSTATINT OXIDE YELLOW A-R 100	Pigment Yellow 42	77492	50	68	32	1.71
HOSTATINT OXIDE RED A-B 100	Pigment Red 101	77491	62	78	22	2.06
HOSTATINT TRANSOXIDE YELLOW A-2R 100	Pigment Yellow 42	77492	36	67	33	1.48
HOSTATINT TRANSOXIDE RED A-G 100	Pigment Red 101	77491	44	68	32	1.60
HOSTATINT WHITE A-R 100	Pigment White 6	77891	59	79	21	1.90

† The R-grades (RESTRICTED) are only recommended for air-drying alkyd coatings due to the poor solvent fastness of the pigments incorporated. A high solid alkyd resin solution with aliphatic high flash point solvent is used.

3.5

HOSTATINT E

The Hostatint E pastes are a range of pigment preparations designed for water-based industrial coatings based on a water-soluble acrylic carrier resin, neutralized with ammonia. The pastes are produced within narrow tolerances of shade and color strength allowing highly consistent paint production path with manual and automatic dispensers. Hostatint E pastes are manufactured without alkyl phenol ethoxylated (APEO) additives. These pigment preparations show good compatibility and can be added in the usual amounts to virtually all types of water-based industrial paint systems, especially low VOC industrial coatings [1].

The Colour Index data relate to the basic pigments. The data given in the table may vary because these pigment preparations are standardized in respect to tinctorial strength.

LITERATURE

Pattern card DP 7079 ED
»Hostatint E - Pigment preparations«

Flyer DP 6128 E
»Hostatint E - Pigment preparations«

[1] As defined in EU directive 2004/42/EC, annex II, phase II. VOC standards and regulations vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CONTENT	WATER	DENSITY
			%	%	%	g/cm ³
HOSTATINT YELLOW E-5GD	Pigment Yellow 155	200310	42	46	54	1.16
HOSTATINT YELLOW E-2GXD	Pigment Yellow 74	11741	40	47	53	1.14
HOSTATINT YELLOW E-HRD	Pigment Yellow 83	21108	35	45	55	1.15
HOSTATINT ORANGE E-2RLD	Pigment Orange 74	—	40	47	53	1.18
HOSTATINT ORANGE E-HLD	Pigment Orange 36	11780	49	53	47	1.23
HOSTATINT RED E-D3GD	Pigment Red 254	56110	47	51	49	1.23
HOSTATINT RED E-F3RKD	Pigment Red 170	12475	50	54	46	1.16
HOSTATINT PINK E-E	Pigment Red 122	73915	30	35	65	1.11
HOSTATINT RED VIOLET E-ER	Pigment Violet 19	73900	33	41	59	1.11
HOSTATINT VIOLET E-BL	Pigment Violet 23	51319	34	39	61	1.15
HOSTATINT BLUE E-B2G	Pigment Blue 15:3	74160	42	49	51	1.21
HOSTATINT GREEN E-3GLS	Pigment Green 7	74260	40	46	54	1.30
HOSTATINT BLACK E-BLN	Pigment Black 7	77266	45	50	50	1.29
HOSTATINT OXIDE YELLOW E-CT	Pigment Brown 24	77310	55	60	40	1.78
HOSTATINT OXIDE YELLOW E-GO	Pigment Yellow 42	77492	50	53	47	1.64
HOSTATINT OXIDE RED E-OR	Pigment Red 101	77491	56	59	41	1.58
HOSTATINT WHITE E-TD	Pigment White 6	77891	70	73	27	2.16

3.6

HOSTAFINE

Hostafine is a range of aqueous, binder-free pigment preparations based on non-ionic wetting agents and is manufactured without using alkyl phenol ethoxylated (APEO) additives. They are ultra fine pigment preparations with 95% of the pigment particle size below 0.5 µm and with no pigment particle size above 1 µm. These preparations show high tinting strength with high transparency and brilliance. Viscosity is low and stability against settling and skinning is excellent. Hostafine pigment preparations are especially suitable for water-based transparent wood stains. They can also be used for other applications such as aqueous emulsion paints, glass paints, water-colors, latex and water resistant inks, inks for fiber-tip fine liner and roller-tip pens. A final evaluation in the customer system is necessary.

The data presented in the table is meant to provide a general indication and do not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index relate to the basic pigments.

LITERATURE

Pattern card DP 7075 E
»Hostafine pigment preparations -
Wood stain shade library«

Flyer DP 6187 E
»Hostafine - Pigment preparations «

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	GLYCOL	DENSITY
			%	%	g/cm ³
HOSTAFINE YELLOW GR	Pigment Yellow 13	21100	40	10	1.14
HOSTAFINE YELLOW HR	Pigment Yellow 83	21108	35	15	1.15
HOSTAFINE RED HF3S	Pigment Red 188	12467	40	10	1.18
HOSTAFINE RED FGR	Pigment Red 112	12370	45	10	1.15
HOSTAFINE RED F5RK	Pigment Red 170	12475	35	10	1.10
HOSTAFINE RED P2GL	Pigment Red 179	71130	25	10	1.10
HOSTAFINE RUBINE F6B	Pigment Red 184	12487	40	10	1.10
HOSTAFINE MAGENTA E	Pigment Red 122	73915	20	10	1.09
HOSTAFINE VIOLET RL	Pigment Violet 23	51319	30	10	1.15
HOSTAFINE BLUE B2G	Pigment Blue 15:3	74160	40	10	1.37
HOSTAFINE GREEN GN	Pigment Green 7	74260	40	10	1.32
HOSTAFINE BLACK T 30	Pigment Black 7	77266	30	10	1.21
HOSTAFINE BLACK TS 30	Pigment Black 7	77266	33	—	1.21
HOSTAFINE TRANSOXIDE YELLOW R 30 ^[1]	Pigment Yellow 42	77492	35	—	1.38
HOSTAFINE TRANSOXIDE RED B 30 ^[1]	Pigment Red 101	77491	35	—	1.38

[1] Hostafine Transoxide Yellow R 30 and Hostafine Transoxide Red B 30 are multipurpose pigment preparations, similar to Hostatint 500, and compatible with water-based and solvent-based low VOC decorative coatings as defined EU directive 2004/42/EC, annex II, phase II. VOC standards vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

3.7

RENOL® HW 30

Renol HW 30 is a range of solid pigment preparations based on polyvinyl butyral as carrier material. It is suitable for use in alcohol containing systems, esters and glycols can be used as additional solvents. Main fields of application are highly transparent solvent-based wood stains and marker inks. Furthermore, they can be used in gravure and flexographic printing inks based on nitrocellulose and for coating aluminum foils.

LITERATURE

Pattern card DP 7077 E
 »Renol HW 30 – Pigment preparations«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	LIGHT FASTNESS	PARTICLE SIZE DISTRIBUTION
			%		
RENOL YELLOW GG-HW 30	Yellow 17	21105	50	5-6	≤ 75
RENOL YELLOW HR-HW 30	Yellow 83	21108	50	6-7	≤ 75
RENOL ORANGE RL-HW 30	Orange 34	21115	50	5-6	≤ 75
RENOL RED HF2B-HW 30	Red 208	12514	50	6-7	≤ 75
RENOL RED F5RK-HW 30	Red 170	12475	50	6	< 250
RENOL CARMINE FBB-HW 30	Red 146	12485	50	5-6	< 150
RENOL BLUE B2G-HW 30	Blue 15:3	74160	50	8	< 100
RENOL GREEN GG-HW 30	Green 7	74260	50	8	≤ 75
RENOL BROWN HFR-HW 30	Brown 25	12510	50	8	≤ 75
RENOL BLACK R-HW 30	Black 7	77266	40	8	≤ 75
RENOL WHITE T-HW 30	White 6	77891	70	8	< 250

3.8

FLEXONYL / FLEXONYL SP

Flexonyl are flow-able and pump-able pigment preparations specially developed for tinting aqueous systems. The high concentrated pigment preparations are based on nonionic dispersing and wetting agents. The products are suitable for office requisites, school supplies, wood finishes, shoe polishes and detergent formulations.

Flexonyl SP is a newly developed range of pigment preparations which covers most of the current regulation (1) relevant for the following application fields:

- Selected toys
- Writing instruments; children paint's and creative material
- Detergents; especially powder detergent speckles
- Latex balloons
- Wood stains

They could be delivered with microbiological specification on request.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	WATER	GLYCERIN	PROPYLENE GLYCOL
			%	%	%	%
FLEXONYL YELLOW DGR-LA	Pigment Yellow 126	21101	50	24	20	—
FLEXONYL ORANGE SP-G	Pigment Orange 13	21110	45	30	20	—
FLEXONYL RED SP-FGR	Pigment Red 112	12370	48	28	20	—
FLEXONYL CARMINE SP-FBB	Pigment Red 146	12485	40	30	20	—
FLEXONYL BLACK PR 100	Pigment Black 7	77266	30	37	—	25
FLEXONYL WHITE R 130	Pigment White 6	77891	55	23	—	15
FLEXONYL WHITE RL 130	Pigment White 6	77891	65	11	—	18
FLEXONYL WHITE RS	Pigment White 6	77891	65	30	—	—

(1) More information you can find in our brochure DP 5524 E
»Colorants for the coloration of consumer goods, food packaging and toys«.

3.9

FLEXONYL A

This pigment preparation can be used too for the straight forward production of aqueous-alcoholic flexographic printing inks, whose varnishes can obtain alcohol without entailing the otherwise possible problems such as flocculation and associated printing problems.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLIDS CONTENT	WATER	ETHYLENE GLYCOL	OTHER GLYCOLS
			%	%	%	%	%
FLEXONYL BLACK A-CB	Pigment Black 7	77266	41	48	42	—	10

3.10

FLEXONYL WF

Flexonyl WF grades are aqueous pigment preparations. They contain a small amount of an acrylic resin as a stabilizer and are neutralized with amine. Particularly recommended for the manufacture of aqueous flexographic printing inks. Flexonyl WF do not contain any organic solvents.

The Colour Index data relate to the basic pigments. The data given in the table may vary because these pigment preparations are standardized in respect to tinctorial strength.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLIDS CONTENT	WATER
			%	%	%
FLEXONYL YELLOW WF 074	Pigment Yellow 74	11741	45	55	45
FLEXONYL ORANGE WF 131	Pigment Orange 13	21110	38	50	50
FLEXONYL BLUE WF 153	Pigment Blue 15:3	74160	37	53	47
FLEXONYL BLACK WF 007	Pigment Black 7	77266	36	48	52

3.11

COSMENYL

These pigment preparations are readily pump-able and flow-able aqueous dispersions for the coloration of cosmetic products (e.g. tooth paste, soap, or mascara), laundry powders, finger paints and other consumer products. The basic pigments of the preparations listed below comply with the requirements for cosmetic colorants defined by the European Union Regulation No. 1223/2009. This directive is valid for all countries of the European Union, and it is used as guideline by many other countries.

This regulation defines in annex IV »List of colorants allowed in cosmetic products« in column »Product type, body parts« the use of the respective colorant.

- 1 = No use restrictions
- 2 = Not to be used in eye products
- 3 = Not to be used in products applied on mucous membranes
- 4 = Rinse-off products

LITERATURE

Brochure DP 5023 E
 »Living Colors - Solutions for Home & Personal Care Products«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLIDS CONTENT	WATER	GLYCERIN	EU COSMETICS APPLICATION FIELD
			%	%	%	%	%
COSMENYL YELLOW 10G	Pigment Yellow 3	11710	45	50	27	23	3
COSMENYL YELLOW G 30	Pigment Yellow 1	11680	46	51	24	25	3
COSMENYL CARMINE FB 01	Pigment Red 5	12490	40	45	30	25	1
COSMENYL VIOLET RL	Pigment Violet 23	51319	30	37	33	30	4
COSMENYL BLUE A4R	Pigment Blue 15:1	74160	38	45	30	25	1
COSMENYL GREEN GG	Pigment Green 7	74260	48	54	21	25	2
COSMENYL BLACK R	Pigment Black 7	77266	25	32	38	30	1
COSMENYL OXIDE YELLOW R	Pigment Yellow 42	77492	58	64	20	16	1

3.12

COSMENYL GRAN.

These pigment preparations are supplied in granular form. They show high flow capability, and are suitable for aqueous systems.

Cosmenyl gran. preparations are used for the coloration of cosmetic products (e.g. soap, or mascara), laundry powders, finger paints and other consumer products. The basic pigments of the preparations listed below comply with the requirements for cosmetic colorants defined by the European Union Regulation No. 1223/2009. This regulation is valid for all countries of the European Union, and it is used as guideline by many other countries.

This regulation defines in annex IV »List of colorants allowed in cosmetic products« in column »Product type, body parts« the use of the respective colorant.

- 1 = No use restrictions
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- 3 = Not to be used in products applied on mucous membranes
- 4 = Rinse-off products

LITERATURE

Brochure DP 5023 E
»Living Colors - Solutions for Home & Personal Care Products«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	EU COSMETICS APPLICATION FIELD
			%	%
COSMENYL YELLOW GLS GRAN.	Pigment Yellow 1	11680	38	3
COSMENYL RED BLS GRAN.	Pigment Red 5	12490	36	1
COSMENYL BLUE BLS GRAN.	Pigment Blue 15	74160	38	1
COSMENYL GREEN 2GLS GRAN.	Pigment Green 7	74260	40	2

3.13

VISCOFIL

Aqueous preparations, specially developed for spin dyeing of viscose, containing pigments that are resistant to the stresses occurring in this process.

The Viscofil grades are noted for high dispersion stability in viscose. Excellent color yield leads to economic processing of Viscofil for the viscose spin dyeing industry.

The Colour Index data relate to the basic pigments. The data given in the table may vary because these pigment preparations are standardized in respect to tinctorial strength.

LITERATURE

Pattern card DP 5027 E
»Viscose Spin Dyeing Industry –
Economic processing by use of Viscofil«

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CONTENT	WATER	PROPYLENE GLYCOL
			%	%	%	%
VISCOFIL YELLOW A2GN	Pigment Yellow 14	21095	23	30	60	10
VISCOFIL YELLOW AGX	Pigment Yellow 74	11741	24	29	61	10
VISCOFIL YELLOW 2GLL	Pigment Yellow 155	200310	20	28	72	—
VISCOFIL YELLOW GGVD	Pigment Yellow 17	21105	25	38	52	10
VISCOFIL GOLDEN RVD	Pigment Yellow 13	21100	32	45	45	10
VISCOFIL YELLOW RR 31 VP 3503	Pigment Yellow 83	21108	40	47	53	—
VISCOFIL GOLDEN YELLOW RRDVN	Mix	—	35	43	47	10
VISCOFIL ORANGE GG 30 VP 3525	Pigment Orange 13	21110	20	27	73	—
VISCOFIL ORANGE GRVD	Pigment Orange 4	12459	32	45	45	10
VISCOFIL ORANGE RL 30 VP 3930	Pigment Orange 34	21115	45	59	41	—
VISCOFIL RED AGN	Pigment Red 2	12310	33	38	52	10
VISCOFIL RED GVD	Pigment Red 2	12310	32	48	42	10
VISCOFIL RED BL	Pigment Red 5	12490	25	37	58	5
VISCOFIL RED F5RK 30 VP 3501	Pigment Red 170	12475	30	35	65	—
VISCOFIL RUBINE BFVD	Pigment Red 32	12320	30	44	46	10
VISCOFIL BORDEAUX BB 30	Pigment Violet 32	12517	20	29	71	—
VISCOFIL VIOLET BLNL	Pigment Violet 23	51319	30	41	59	—
VISCOFIL BLUE ARN	Pigment Blue 15	74160	33	41	49	10
VISCOFIL BLUE BL 500	Pigment Blue 15	74160	27	38	62	—
VISCOFIL BLUE FRVD	Pigment Blue 15	74160	33	45	45	10
VISCOFIL BLUE B2G 30 VP 3494	Pigment Blue 15:3	74160	33	45	45	10
VISCOFIL GREEN A-GNS	Pigment Green 7	74260	40	52	38	10
VISCOFIL GREEN GVDN 20	Mix	—	25	33	57	10
VISCOFIL BROWN HFR 30	Pigment Brown 25	12510	20	25	75	—
VISCOFIL BLACK AV	Pigment Black 7	77266	28	31	59	10
VISCOFIL BLACK 2BLN	Pigment Black 7	77266	26	30	70	—
VISCOFIL BLACK VBC	Pigment Black 7	77266	27	30	60	10
VISCOFIL WHITE A-RCL 30	Pigment White 6	77891	63	75	15	10

3.14

AGROCER DISP.

Agrocer disp. are aqueous pigment dispersion recommended for the coloration of seeds. The pigment dispersions are easy to handle, readily pump-able for simple dosing and mixing and facilitate the cleaning of production equipment.

Due to their composition Agrocer pigment dispersions are compatible with all common seed treatment pesticide formulations as well as seed coating products.

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT %	WATER %	POLYPRO- PYLENE GLYCOL %	GLYCERINE %
AGROCER YELLOW 001 DISP.	Pigment Yellow 1	11680	46	24	–	25
AGROCER RED 112 DISP.	Pigment Red 112	12370	40	42	–	10
AGROCER RED 482 DISP.	Pigment Red 48:2	15865:2	35	53	8	–
AGROCER VIOLET 023 DISP.	Pigment Violet 23	51319	30	33	–	30
AGROCER BLUE 153 DISP.	Pigment Blue 15:3	74160	33	35	10	–
AGROCER GREEN 007 DISP.	Pigment Green 7	74260	40	38	10	–

3.15

HOSTAPRINT

The Hostaprint grades are finely dispersed non-dusting pigment preparations with a vinyl chloride/vinyl acetate copolymer as carrier material. They contain about 50 % pigment. The special manufacturing method ensures very good dispersion of the pigment preparations.

The Hostaprint grades are standardized in PVC mass coloration.

The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card DP 7070 ED

»Hostaprint pigment preparations for the PVC industry«

NAME	COLOUR INDEX	COLOUR INDEX NO.
HOSTAPRINT YELLOW GG	Pigment Yellow 17	21105
HOSTAPRINT YELLOW H4G	Pigment Yellow 151	13980
HOSTAPRINT YELLOW 3GP *	Pigment Yellow 155	200310
HOSTAPRINT YELLOW HG	Pigment Yellow 180	21290
HOSTAPRINT YELLOW HR	Pigment Yellow 83	21108
HOSTAPRINT YELLOW HGR	Pigment Yellow 191	18795
HOSTAPRINT YELLOW H2R	Pigment Yellow 139	56298
HOSTAPRINT ORANGE H4GL	Pigment Orange 72	211095
HOSTAPRINT RED HFG	Pigment Orange 38	12367
HOSTAPRINT RED B	Pigment Red 149	71137
HOSTAPRINT RED D3G	Pigment Red 254	56110
HOSTAPRINT RED HF2B	Pigment Red 208	12514
HOSTAPRINT CARMINE HF4C	Pigment Red 185	12516
HOSTAPRINT RED E5B	Pigment Violet 19	73900
HOSTAPRINT PINK E	Pigment Red 122	73915
HOSTAPRINT BORDEAUX HF3R	Pigment Violet 32	12517
HOSTAPRINT VIOLET RL	Pigment Violet 23	51319
HOSTAPRINT BLUE A2R	Pigment Blue 15:1	74160
HOSTAPRINT BLUE B2G	Pigment Blue 15:3	74160
HOSTAPRINT GREEN GG	Pigment Green 7	74260
HOSTAPRINT BROWN RL	Pigment Braun 41	—
HOSTAPRINT BROWN HFR	Pigment Brown 25	12510
HOSTAPRINT BLACK L	Pigment Black 7	77266

* = Firm order only 2 tons minimum

3.16

HOSTASIN

Concentrated, about 50-60 % pigment preparations in granular form for the rubber industry. Since the pigments in the Hostasin preparations are already in very finely dispersed form, relatively little mechanical effort or only a brief mixing time is needed to obtain the full tinctorial strength. A further advantage is their ease of handling, because being granules, they are free-flowing and easily metered. They do not smear or dust and thus make for clean lossless processing.

The carrier material is an oxidation-resistant polyolefin copolymer that is compatible with natural rubber and the common synthetic rubbers.

The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card DP 7069 ED
»Hostasin pigment preparations for the rubber industry«

NAME	COLOUR INDEX	COLOUR INDEX NO.
HOSTASIN YELLOW GR 30	Pigment Yellow 13	21100
HOSTASIN YELLOW HR 30	Pigment Yellow 83	21108
HOSTASIN ORANGE G 30	Pigment Orange 13	21110
HOSTASIN RED LC 30	Pigment Red 53:1	15585:1
HOSTASIN RED B 30	Pigment Red 38	21120
HOSTASIN RED HF2B 30	Pigment Red 208	12514
HOSTASIN BLUE A2R 30	Pigment Blue 15:1	74160
HOSTASIN GREEN GG 30	Pigment Green 7	74260

4 DYES

- 4.1 Hostasol
- 4.2 Solvaperm
- 4.3 Polysynthren
- 4.4 Duasyn Acid
- 4.5 Other
- 4.6 Duasyn SF / Duasyn SF liquid / Duasynjet SF
- 4.7 Savinyl
- 4.8 Fat
- 4.9 Sanolin / Sanolin liquid / Sanolin Lave liquid
- 4.10 Aluminum dyes and chemicals

4.1 HOSTASOL

The Hostasol grades are fluorescent dyes that are used in polystyrene (PS), styrene-acrylonitrile (SAN), acrylonitrile-butadiene-styrene (ABS), polycarbonate (PC), polyester (PET/PBT), polymethyl methacrylate (PMMA) and unplasticized PVC.

In low concentrations, transparent colored material exhibits strong edge fluorescence; brilliant shades are also obtained in reductions.

The Hostasol dyes have excellent resistance to heat and migration in the recommended polymers and good light fastness in transparent colorations.

LITERATURE

Pattern card DP 7084 ED
»Solvaperm, Hostasol, Polysynthren, Special Colors«

NAME	COLOUR INDEX	COLOUR INDEX NO.	POLYMER								
			PS	SAN	ABS	PC	PET PBT	PMMA	PA	PVC-U	
HOSTASOL YELLOW 3G	Solvent Yellow 98	56238	●	●	●	●	●	●	●	○	●
HOSTASOL RED GG	Solvent Orange 63	68550	●	●	●	●	●	●	●	○	●
HOSTASOL RED 5B	Vat Red 41	73300	●	○	○	●	○	●	●	—	●

4.2 SOLVAPERM

The Solvaperm dyes are high-quality polymer-soluble dyes that were developed for coloring polystyrene (PS) and the plastics derived from it, e.g. styrene-acrylonitrile (SAN) and acrylonitrile-butadiene-styrene (ABS). However, they are also suitable for unplasticized PVC (PVC-U), polymethyl methacrylate (PMMA), polyester (PET/PBT), polycarbonate (PC) and to some extent for polyamide (PA). They are standardized in PS. They give brilliant transparent colors in PS and other glass-clear plastics. Opaque formulations can be produced

by adding white pigments such as titanium dioxide or zinc sulfide. In combination with organic and inorganic pigments they give colorations of higher tinctorial strength and greater brilliance. Solvaperm dyes can be used together with fluorescent Hostasol dyes to produce brilliant shades.

LITERATURE

Pattern card DP 7084 ED
»Solvaperm, Hostasol, Polysynthren, Special Colors«

NAME	COLOUR INDEX	COLOUR INDEX NO.								
			PS	SAN	ABS	PC	PET PBT	PMMA	PA	PVC-U
SOLVAPERM YELLOW 6G	Disperse Yellow 201 Solvent Yellow 179	—	●	●	●	●	●	●	—	●
SOLVAPERM YELLOW 3G	Solvent Yellow 93	48160	●	●	—	●	—	●	—	●
SOLVAPERM YELLOW 2G	Solvent Yellow 114	47020	●	●	●	●	●	●	—	●
SOLVAPERM ORANGE 3G	Solvent Orange 60	564100	●	●	●	●	●	●	○	●
SOLVAPERM ORANGE R	Disperse Orange 47 Solvent Orange 107	—	●	●	●	●	●	●	—	●
SOLVAPERM RED 2G	Solvent Red 179	564150	●	●	●	●	●	●	●	●
SOLVAPERM RED G	Solvent Red 135	564120	●	●	●	●	●	●	○	●
SOLVAPERM RED PFS	Solvent Red 111	60505	●	●	●	●	●	●	○	●
SOLVAPERM RED BB	Solvent Red 195	—	●	●	●	●	●	●	—	●
SOLVAPERM RED VIOLET R	Disperse Violet 26 Solvent Violet 59	62025	●	●	●	●	○	●	○	●
SOLVAPERM VIOLET RSB	Solvent Violet 13	60725	●	●	●	●	●	●	—	●
SOLVAPERM BLUE 2B	Solvent Blue 104	61568	●	●	●	●	●	●	○	●
SOLVAPERM BLUE GN	Solvent Blue 67	—	●	●	●	●	●	●	—	●
SOLVAPERM GREEN GSB	Solvent Green 3	61565	●	●	●	●	●	●	—	●
SOLVAPERM GREEN G	Solvent Green 28	625580	●	●	●	●	●	●	—	●

4.3 POLYSYNTHREN

The Polysynthren dyes are polymer-soluble dyes developed specially for coloring polyester. They give brilliant, highly transparent colorings of high tinctorial strength and excellent fastness properties. Because of their good solubility in this polymer these dyes are suitable primarily for the spin dyeing of polyester fibers and filaments. The filter and nozzle service lives of the processing machines are not adversely affected. Polysynthren dyes do not have a nucleating effect on polyester.

Some of the grades have therefore proved ideal for the coloration of PET bottles.

Besides polyester, the Polysynthren dyes can be used in a number of other engineering plastics.

LITERATURE

Pattern card DP 7084 ED
»Solvapern, Hostasol, Polysynthren, Special Colors«

NAME	COLOUR INDEX	COLOUR INDEX NO.	POLYMER						
			PS	SAN	ABS	PC	PET PBT	PMMA	PA
POLYSYNTHREN YELLOW GG	Solvent Yellow 133	48580	—	—	—	●	●	○	—
POLYSYNTHREN YELLOW NG	Pigment Yellow 147	60645	○	○	○	●	●	○	—
POLYSYNTHREN YELLOW RL	Pigment Yellow 192	—	—	—	—	—	○	—	●
POLYSYNTHREN RED GG	Solvent Red 212	—	—	—	—	●	●	—	—
POLYSYNTHREN RED GFP	Solvent Red 135	564120	●	●	●	●	●	●	○
POLYSYNTHREN VIOLET G	Solvent Violet 49	48520	○	○	○	●	●	●	—
POLYSYNTHREN BLUE R	Solvent Blue 122	60744	●	●	●	●	●	●	—
POLYSYNTHREN BLUE RLS	Solvent Blue 45	—	●	●	●	●	●	●	—
POLYSYNTHREN BROWN 3RL	Pigment Orange 70	—	○	○	○	●	●	○	—
POLYSYNTHREN BROWN R	Solvent Brown 53	48525	●	●	●	●	●	●	—
POLYSYNTHREN BLACK H	Solvent Black 27	—	●	○	○	●	○	●	●

4.4

DUASYN ACID

The Duasyn Acid dyes are used primarily for coloring writing inks, drawing inks, stamping inks, detergents, fertilizers and crop protection products.

NAME	COLOUR INDEX	COLOUR INDEX NO.	OFFICE SUPPLIES			DETERGENTS (e.g. cleaners)
			Writing inks	Fiber-tip pen inks	Stamping inks	
DUASYN INK BLUE SLK	Acid Blue 93	42780	■	■	■	●
DUASYN ACID BLUE AE 03	Acid Blue 9	42090	●	●	●	■
DUASYN ACID BLUE AE LIQUID	Acid Blue 9	42090	■	■	–	■
DUASYN TURQUOISE E-VS	Acid Blue 1	42045	■	■	■	●

4.5 OTHERS

These dyes are standardized anionic dyes with good light fastness, high surface tension and brilliancy and low salt content. Liquid types have the advantage over powder grades of being non-dusting and they do not need to be dissolved.

LITERATURE

Brochure DP 8530 E
»Products for Non Impact Printing«

NAME	COLOUR INDEX	COLOUR INDEX NO.	OFFICE SUPPLIES							
			Ink-Jet Inks	Writing Inks	Fiber-tip pen inks	Stamping inks	Soap/Cosmetics	Detergents/Polishes	Wood stains	Woods preservatives
DUASYN										
DUASYN MAGENTA CR LIQUID	—	—	■	■	■	●	—	—	—	—
CARTASOL										
CARTASOL YELLOW 3GF LIQUID	Direct Yellow 132	—	—	■	■	●	—	●	—	—
SANOLIN										
SANOLIN RHODAMINE B 02 ^o	Acid Red 52	45100	■	■	■	●	●	■	—	—

⊕ = Powder form

4.6

DUASYN SF DUASYN SF LIQUID DUASYNJET SF

These practically salt-free, water-soluble dyes are noted for high purity (no insoluble components) and high surface tension.

The products are ideally suitable for ink jet and special inks and other special uses where high-purity dyes are required.

LITERATURE

DP 8530 E
»Products for Non Impact Printing«

NAME	COLOUR INDEX	COLOUR INDEX NO.		
DUASYN			Ink Jet Inks	Writing Inks
DUASYN ACID YELLOW XX-SF	Acid Yellow 23	19140	■	●
DUASYN ACID YELLOW XX-SF LIQUID	Acid Yellow 23	19140	■	
DUASYN YELLOW 3GF-SF LIQUID	Direct Yellow 132	—	■	●
DUASYN BRILLIANT RED F3B-SF LIQUID	Reactive Red 180	181055	■	●
DUASYN ACID BLUE AE-SF 30 LIQUID	Acid Blue 9	42090	■	●
DUASYN CYAN R-SF LIQUID VP 5160	Direct Blue 199	74190	■	
DUASYN BLACK HEF-SF LIQUID	Direct Black 168	—	■	●
DUASYNJET				
DUASYNJET CYAN FRL-SF LIQUID	Direct Blue 199	74190	■	●

4.7 SAVINYL

Savinyl powder dyes are solvent soluble metal complex dyes, with excellent solubilities in polar organic solvents like alcohols, ketones and glycol ethers, as well as good overall fastness properties.

They are suitable for coloration of writing inks, wood stains, leather finish, flexographic and gravure inks and paints based on polar solvents.

NAME	COLOUR INDEX	COLOUR INDEX NO.							
			Office supplies	Wood stains	Leather finishes	Industrial paints	Powder coatings	Solvent containing gravure and flexographic printing inks	Ink Jet inks
SAVINYL YELLOW 2GLS 01	Solvent Yellow 79	—	●	■	■	●	○	●	—
SAVINYL YELLOW RLS	Solvent Yellow 83:1	—	●	■	■	●	○	●	●
SAVINYL YELLOW RLSN	Solvent Yellow 83	—	●	■	■	○*	○	●	—
SAVINYL YELLOW 2RLS	Solvent Yellow 62	—	●	■	■	●	○	●	—
SAVINYL ORANGE RLS	Solvent Orange 41	—	●	■	■	●	○	●	—
SAVINYL ORANGE RLSE	Solvent Orange 62	—	●	■	■	○*	○	●	—
SAVINYL FIRE RED 3GLS	Solvent Red 124	—	●	●	○	○*	○	●	—
SAVINYL RED 3BLS	Solvent Red 91	—	●	■	■	●	○	●	●
SAVINYL PINK 6BLS	Solvent Red 127	—	—	●	○	○*	○	●	●
SAVINYL DARK VIOLET R	Acid Violet 66	—	●	■	■	●	○	●	—
SAVINYL BLUE RS	Solvent Blue 45	—	●	■	●	○*	○	●	—
SAVINYL BLUE GLS	Solvent Blue 44	—	●	■	■	●	○	●	●
SAVINYL GREEN 2GLS 01	Mixture	—	●	■	■	○*	○	●	—
SAVINYL BROWN GLS	Mixture	—	●	■	■	●	○	●	—
SAVINYL BLACK RLSN	Mixture	—	—	■	■	●	○	●	●

* = Limited fastness to over-painting

4.8 FAT

The Fat dyes are in principle soluble in almost all organic solvents. Their solubility in aliphatic and aromatic hydrocarbons, oils and waxes makes them suitable for coloring shoe creams, floor polishing compounds, 2-phase-cleaners, candles, lubricating greases, gasoline etc. In general, the Fat dyes have a wide variety of applications.

Some grades are used in phenolics. They can also be used in unsaturated polyester casting resins, methacrylate and in the manufacture of colored smoke signals.

NAME	COLOUR INDEX	COLOUR INDEX NO.	COLOUR INDEX NO.				
			Mineral oil	Consumer goods	Detergents/ shoe polish	Candles	Food packaging materials
FAT YELLOW 3G	Solvent Yellow 16	12700	■	—	—	—	—
FAT ORANGE R 01	Solvent Yellow 14	12055	■	—	—	—	—
FAT BLUE B 01	Solvent Blue 35	61554	■	—	—	—	—

4.9

SANOLIN SANOLIN LIQUID SANOLIN LAVE LIQUID

The Sanolin dyes are especially used for the coloration of home and fabric care products in liquid, paste or powder form (e.g. hard surface cleaners, dish wash tabs). They are easily dissolvable in water. Selected grades are also suitable for the coloration of cosmetics

(e.g. shower gel). The Sanolin powder grades are exposed to low dose ionizing radiation and therefore meet high microbiological purity requirements of customers active in the home & personal care industry.

NAME	COLOUR INDEX	COLOUR INDEX NO.									
			Soap/ Cosmetics	Granule coloration (speckles)	Laundry powder detergents	Laundry liquid and heavy-duty detergents	Fabric softener	Dish washing detergents/Tabs	Household cleaners	Wood stains	Office supplies
SANOLIN QUINOLINE YELLOW 70	Acid Y. 3 / Food Y. 13	47005	■	●	—	●	—	○	■	●	●
SANOLIN TARTRAZINE X 90	Acid Y. 23 / Food Y. 4	19140	■	—	●	●	●	●	■	●	●
SANOLIN YELLOW BG 30	Direct Yellow 28	19555	—	■	●	—	—	●	■	—	—
SANOLIN ORANGE RGL 90	Food Yellow 3	15985	●	—	—	●	●	○	■	●	●
SANOLIN PONCEAU 4RC 82	Acid R. 18 / Food R. 7	16255	●	—	—	●	●	●	■	●	●
SANOLIN RED NBG	Acid Red 249	—	—	■	—	—	—	■	■	—	●
SANOLIN RHODAMINE B 02	Acid Red 52	45100	■	■	■	■	■	■	■	—	●
SANOLIN RED N-6B	Acid Violet 54	—	—	●	—	■	■	●	■	—	—
SANOLIN VIOLET E2R	Acid Violet 126	—	—	■	●	■	■	■	■	—	—
SANOLIN VIOLET FBL	Acid Violet 48	—	—	■	●	■	■	■	■	—	—
SANOLIN BLUE EHRL	Acid Blue 182	—	—	■	■	■	■	■	■	—	—
SANOLIN BLUE NBL	Acid Blue 80	61585	■	■	■	■	■	■	■	—	—
SANOLIN PATENT BLUE V 85 01	Food Blue 5:2	42051:2	●	—	—	●	●	○	■	●	—
SANOLIN BLUE AE 90	Acid B. 9 / Food B. 2	42090	●	—	—	●	●	○	■	●	—
SANOLIN TURQUOISE BLUE FBL	Direct Blue 199	74190	—	■	●	●	●	●	■	—	—
SANOLIN GREEN 6GLN	Acid Green 81	—	—	■	●	●	●	●	■	—	—
SANOLIN GREEN R-3GL	Reactive Green 12	—	—	●	●	●	●	●	■	—	—

The liquid grades offer convenient handling and dosing. They also meet high microbiological purity requirements of customers active in the home & personal care industry.

LITERATURE

Brochure DP 5023 E
 »Living Colors - Solutions for Home & Personal Care Products«

NAME	COLOUR INDEX	COLOUR INDEX NO.									
			Soap/ Cosmetics	Granule coloration (speckles)	Laundry powder detergents	Laundry liquid and heavy-duty detergents	Fabric softener	Dish washing detergents/ Tabs	Household cleaners	Wood stains	Office supplies
SANOLIN PONCEAU SP LIQUID	Acid Red 18 / Food Red 7	16255	—	●	●	■	■	■	■	—	—
SANOLIN VIOLET AS-SP LIQUID	Direct Violet 66	29120	—	●	●	■	●	●	■	—	—
SANOLIN VIOLET AS-E2R LIQUID	Acid Violet 126	—	—	●	●	■	■	■	■	—	—
SANOLIN VIOLET AS-FBL LIQUID	Acid Violet 48	—	—	●	●	■	●	●	■	—	—
SANOLIN BLUE EHRL LIQUID	Acid Blue 182	—	—	■	■	■	■	■	■	—	—
SANOLIN CYAN FRL 10 LIQUID	Direct Blue 199	74190	—	■	●	●	●	●	■	—	—
SANOLIN GREEN R-3GL LIQUID	Reactive Green 12	—	—	●	●	■	●	■	■	—	—

4.9

SANOLIN SANOLIN LIQUID SANOLIN LAVE LIQUID

Water based liquid colorants for fabric & home care, and stationery applications. The Sanolin Lave liquid range provides both – bright & brilliant shades combined with easy rinse ability from skin and fabrics. All colorants are suitable for the coloration of fabric & home care products, which can be labeled with well-recognized Ecolabels such as the EU Ecolabel or the Nordic Swan.

They are suitable for stationery applications as well. All products fulfill the criteria as laid down e.g. for primary aromatic amines in the EN 71-9. Loadings up to 5 % in the end-articles will lead to observation of the stringent heavy metal limits as laid down in the revised EN 71-3 - although a final confirmation can be only obtained by testing the end-article.

- Improved non-staining behavior on textiles and skin
- High tinting strength
- Excellent transparency and brilliancy
- Microbiological purity is specified and tightly controlled
- Colorimetrically standardized in aqueous solution
- Easy handling, dosing and cleaning of equipment

LITERATURE

Flyer DP 6224 E

»Non-staining colorants - Sanolin Lave liquid«

NAME

SANOLIN LAVE YELLOW GX LIQUID

SANOLIN LAVE ORANGE R LIQUID

SANOLIN LAVE RED B LIQUID

SANOLIN LAVE VIOLET B LIQUID

SANOLIN LAVE BLUE R LIQUID

SANOLIN LAVE BLUE T LIQUID

SANOLIN LAVE GREEN G LIQUID

4.10

ALUMINUM DYES AND CHEMICALS

Clariant offers a comprehensive range of products for anodizing of aluminum. The products comprise dyes, colorants for screen printing, process chemicals and additives.

Dyes of the Sanodal, Sanodure and Sanodye ranges are especially developed water soluble dyes for the adsorptive coloration of anodized aluminum oxide layers. With these three dye ranges Clariant covers almost every customer's need.

SANODAL

The dyes in this range show excellent light- and weather fastness properties and are correspondingly recommended not only for indoor but also for outdoor use. The Sanodal dyes can be used alone or in combination with an electrolytic dyeing process. One of the major application areas is the architectural sector, e. g. colored aluminum façades, window frames, etc.

LITERATURE

Pattern card DP 9501 E
»Sanodal, Sanodure and Sanodye dyes«

NAME	SUPPLY FORM	OUTDOOR	INDOOR
SANODAL GOLD 4N	Powder	✓	✓
SANODAL ORANGE 3LW LIQ.	Liquid	✓	✓
SANODAL RED B3LW	Granules	✓	✓
SANODAL TURQUOISE PLW LIQ.	Liquid	✓	✓
SANODAL GREEN 3LW	Granules	✓	✓
SANODAL BLACK GL	Paste	✓	✓
SANODAL BLACK 2LW	Granules	✓	✓
SANODAL DEEP BLACK H3LW	Paste	✓	✓
SANODAL DEEP BLACK HBL LIQ.	Paste	✓	✓
SANODAL DEEP BLACK MLW	Powder	✓	✓
	Granules	✓	✓

4.10

ALUMINUM DYES AND CHEMICALS

SANODURE

This range covers virtually all coloristic needs. Sanodure dyes have overall good fade resistance properties, but often limited weather fastness. Sanodure dyes are recommended for all kind of indoor applications.

LITERATURE

Pattern card DP 9501 E
»Sanodal, Sanodure and Sanodye dyes«

NAME	SUPPLY FORM	OUTDOOR	INDOOR
SANODURE FAST GOLD L	Granules		✓
SANODURE ORANGE G	Granules		✓
SANODURE ORANGE RL	Granules		✓
SANODURE FIERY RED ML	Granules		✓
SANODURE BORDEAUX RL	Granules		✓
SANODURE VIOLET CLW	Granules		✓
SANODURE GREEN LWN	Granules		✓
SANODURE FAST BRONZE L	Granules		✓
SANODURE BRONZE 2LW	Granules		✓
SANODURE BRONZE G	Granules		✓
SANODURE YELLOW BROWN 2G	Granules		✓
SANODURE BROWN GSL	Granules		✓
SANODURE OLIVE BROWN 2R	Granules		✓
SANODURE GREY HLN LIQ.	Liquid		✓
SANODURE GREY NL LIQ.	Liquid		✓
SANODURE BLACK CRO	Powder		✓

SANODYE

While most dyes used for aluminum coloring are based on heavy metals, the Sanodye range only consists of dyes with heavy metal free structures. With this range Clariant accommodates the market demand in sensitive application fields with stringent heavy metal limits.

The recommended application fields vary from indoor to outdoor as indicated in our technical data sheets.

LITERATURE

Pattern card DP 9501 E
»Sanodal, Sanodure and Sanodye dyes«

NAME	SUPPLY FORM	OUTDOOR	INDOOR	HEAVY METAL FREE STRUCTURE
SANODYE YELLOW 3GL	Granules	✓	✓	✓
SANODYE YELLOW D	Powder		✓	✓
SANODYE GOLDEN ORANGE RLW	Granules		✓	✓
SANODYE ORANGE 2B	Powder		✓	✓
SANODYE RED GLW	Granules		✓	✓
SANODYE RED RLW	Granules		✓	✓
SANODYE VIOLET 3D	Powder		✓	✓
SANODYE VIOLET MRB NEW	Powder		✓	✓
SANODYE BLUE 2LW	Granules	✓	✓	✓
SANODYE BLUE G	Granules	✓	✓	✓
SANODYE GREEN AEN	Powder		✓	✓
SANODYE BROWN R	Granules		✓	✓
SANODYE BLACK OA	Granules	✓	✓	✓

4.10

ALUMINUM DYES AND CHEMICALS

ANODAL

Under the trade name Anodal Clariant offers a complete range of process chemicals for all production steps of anodizing aluminum from degreasing, etching, anodizing, electrolytic coloring, sealing to waste water treatment of used up dye baths. The Anodal chemicals help to increase productivity, efficiency and minimize environmental impact.

Anodal chemicals are tailored to the special needs of our Sanodal, Sanodure and Sanodye ranges for optimized results.

LITERATURE

Brochure DP 6199 E »Aluminum Finishing«

NAME	SUPPLY FORM	PROCESS STEP	DESCRIPTION
ANODAL DA-5	Powder	Degreasing	Emulsifying alkaline degreasing additive, no phosphate and silicate added
ANODAL EC-2	Liquid	Etching	Long term etching additive, complexing and leveling additive for high aluminum containing etching tanks (> 150 g/L), specially developed for matt finishing (E6), additionally suitable for zinc containing alloys, no silicate and chlorate added.
ANODAL EE	Liquid	Anodizing	Surface leveling, burning prevention, reduced refrigerating temperature, hard coating
ANODAL SUAC	Liquid	Anodizing	Additive for the integral coloring process
ANODAL COLOR S-2	Liquid	Electrolytic coloring	Metal free structure stabilizer for tin sulfate coloring, throwing power trigger; leveling agent
ANODAL SH-1	Liquid	Sealing	Anti-smutting, hot water sealing additive (> 96 °C)
ANODAL SH-2	Liquid	Sealing	Anti-smutting, mid-temperature sealing additive (82-90 °C)
ANODAL ASL	Liquid	Sealing	Anti-smutting, hot nickel sealing additive (> 96 °C)
ANODAL MS-1	Liquid	Sealing	Anti-smutting, nickel containing sealing additive; mid-temperature nickel sealing (75-85 °C)
ANODAL WT-1	Liquid	Waste water	Floccing additive for waster water treatment; removal of dissolved dyestuff
ANODAL DEFOAMER SFN	Liquid	—	Foam suppression and prevention

ALUPRINT

Aluprint stands for our range of screen printing inks for printing on anodized aluminum. Printing and dip-dyeing can be combined for attractive designs.

Aluprint screen inks are solvent based and recommended for indoor use.

LITERATURE

Brochure DP 6199 E »Aluminum Finishing«

NAME

ALUPRINT YELLOW 3R

ALUPRINT RED 3R

ALUPRINT TURQUOISE 3R

ALUPRINT BLUE 3R

ALUPRINT BLACK 3R

ALUPRINT DILUENT LIQUID

ALUPRINT REDUCER 3R

5 INTERMEDIATES / CHEMICALS

5

INTERMEDIATES / CHEMICALS

NAME	CAS-NUMBER	APPLICATION
AMIDES		
ACETOACETAMIDE TECHNICAL 50 % SOLN	5977-14-0	Agrochemical, Pharma
ARYLIDES		
BIS-ACETOACETIC-P-PHENYLENEDIAMINE	24731-73-5	Pigment
ACETOACET-2,5-DIMETHOXY-4-CHLOROANILIDE	4433-79-8	Pigment
5-ACETOACETYLAMINO BENZIMIDAZOLONE	26576-46-5	Pigment
ACETACET-2-METHOXYANILINE-5-SULFONIC ACID SOLUTION	68030-79-5	Paper dye
ACETOACETANILIDE	102-01-2	Pigment
ACETOACET-O-ANISIDIDE	92-15-9	Pigment
ACETOACET-O-TOLUIDIDE	93-68-5	Pigment
ACETOACET-M-XYLIDIDE	97-36-9	Pigment
ACETOACET-O-CHLORANILIDE	93-70-9	Pigment
ESTER		
ACETOACETIC ACID METHYLESTER	105-45-3	Pharma, Vitamin E
OTHERS		
TETRACHLORO-BENZOQUINONE	118-75-2	Pigment, Dye, Pharma
PHENYL-3-CARBETHOXYPIRAZOL-5-ONE	89-33-8	Pigment
(3-SULPHOPHENYL)-3-METHYLPYRAZOL-5-ONE	119-17-5	Pigment, Dye, Pharma

6

OVERVIEW BY COLOUR INDEX DATA (GENERIC NAME)

6.1 Pigments

Pigment preparations

6.2 Dyes

6.1

PIGMENT YELLOW

The following overview lists our products already published in the Colour Index, arranged by their generic name. If only the generic name but not the Colour Index No. is given, the product was published without details of its constitution. We would like to point out that identical generic names simply indicate identical chemical composition.

The application properties of colorants are however influenced to a greater or lesser extent not only by their chemical composition but also by numerous other factors such as particle size distribution, crystallinity, surface treatment, impurities etc. For this reason products having identical compositions and identical generic names may differ completely in their application properties.

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Yellow 1	11680	HANSA YELLOW G 02	AGROCER YELLOW 001
			AGROCER YELLOW 001 DISP.
			COLANYL YELLOW G 132
			COLANYL YELLOW G 500
			COSMENYL YELLOW G 30
Pigment Yellow 3	11710	HANSA YELLOW 10G	COLANYL YELLOW 10G 131
		HANSA YELLOW 10G 41 GRAN.	COSMENYL YELLOW 10G
			HOSTATINT YELLOW 12G 500
Pigment Yellow 12	21090	PERMANENT YELLOW DHG	
		PERMANENT YELLOW DHG N22	
		PERMANENT YELLOW DHG N26	
		PERMANENT YELLOW 2050G	
Pigment Yellow 13	21100	GRAPHTOL YELLOW GR	HOSTAFINE YELLOW GR
		PERMANENT YELLOW GR	HOSTASIN YELLOW GR 30
		PERMANENT YELLOW GR 01	VISCOFIL GOLDEN RVD
		PERMANENT YELLOW P-GRL 06	
		PERMANENT YELLOW P-GRL 07	
Pigment Yellow 14	21095	PERMANENT YELLOW P-G	VISCOFIL YELLOW A2GN
Pigment Yellow 16	20040	PERMANENT YELLOW NCG	COLANYL YELLOW NCG 131
Pigment Yellow 17	21105	GRAPHTOL YELLOW GG	HOSTAPRINT YELLOW GG
		PERMANENT YELLOW GG 02	RENOL YELLOW GG-HW 30
			VISCOFIL YELLOW GGVD

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Yellow 42	77492		COLANYL OXIDE OLIVE GS 130 COLANYL OXIDE YELLOW R 132 COLANYL OXIDE YELLOW R 531 COSMENYL OXIDE YELLOW R HOSTAFINE TRANSOXIDE YELLOW R HOSTATINT OXIDE YELLOW E-GO HOSTATINT OXIDE YELLOW R 500 HOSTATINT OXIDE YELLOW A-R 100 HOSTATINT TRANSOXIDE YELLOW A-2R 100 HOSTATINT TRANSOXIDE YELLOW R 500
Pigment Yellow 73	11738	HANSA BRILLIANT YELLOW 4GX	HOSTATINT YELLOW 4GX 500
Pigment Yellow 74	11741	HANSA BRILLIANT YELLOW 5GX HANSA BRILLIANT YELLOW 5GX 03 HANSA BRILLIANT YELLOW 2GX 70 HANSA BRILLIANT YELLOW 2GX 70-S HANSA YELLOW 5GX 01 INK JET YELLOW 5GX-W VP 5163 TONER YELLOW 5GXT	COLANYL YELLOW 5GX 131 COLANYL YELLOW 5GX 500 COLANYL YELLOW 2GXD 130 COLANYL YELLOW 2GXD 500 FLEXONYL YELLOW WF 074 HOSTATINT YELLOW 2GXD 500 HOSTATINT YELLOW A-2GXD 131 R HOSTATINT YELLOW E-2GXD VISCOFIL YELLOW AGX
Pigment Yellow 81	21127	NOVOPERM YELLOW H10G 01	
Pigment Yellow 83	21108	NOVOPERM YELLOW HR NOVOPERM YELLOW HR 02 NOVOPERM YELLOW HR 04 NOVOPERM YELLOW HR 70 NOVOPERM YELLOW P-HRE NOVOTEX YELLOW HR 02 PV FAST YELLOW HR PV FAST YELLOW HR 02	COLANYL YELLOW HR 130 COLANYL YELLOW HRD 131 COLANYL YELLOW HRD 500 FLEXOPRINT YELLOW HR HOSTAFINE YELLOW HR HOSTAPRINT YELLOW HR HOSTASIN YELLOW HR 30 HOSTATINT YELLOW HR 530 HOSTATINT YELLOW A-HRD 100 HOSTATINT YELLOW E-HRD RENOL YELLOW HR-HW 30 VISCOFIL YELLOW RR 31 VP 3503

6.1 PIGMENT YELLOW

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Yellow 97	11767	NOVOPERM YELLOW FGL	COLANYL YELLOW FGL 132 COLANYL YELLOW FGL 500 HOSTATINT YELLOW FGL 530
Pigment Yellow 120	11783	INK JET YELLOW H2G NOVOPERM YELLOW H2G PV FAST YELLOW H2G	
Pigment Yellow 126	21101	PERMANENT YELLOW DGR	FLEXONYL YELLOW DGR-LA
Pigment Yellow 127	21102	PERMANENT YELLOW GRL 03	
Pigment Yellow 139	56298	GRAPHTOL YELLOW H2R GRAPHTOL YELLOW H2R-LHC NOVOPERM YELLOW M2R 70 NOVOPERM YELLOW P-M3R	HOSTAPRINT YELLOW H2R
Pigment Yellow 147	60645	POLYSYNTHREN YELLOW NG	
Pigment Yellow 150	12764	HOSTAPERM YELLOW HN4G	
Pigment Yellow 151	13980	HOSTAPERM YELLOW H4G HOSTAPERM YELLOW H4G 70 INK JET YELLOW H4G VP 3853 PV FAST YELLOW H4G PV FAST YELLOW H4G-LHC	HOSTAPRINT YELLOW H4G
Pigment Yellow 154	11781	HOSTAPERM YELLOW H3G	COLANYL YELLOW H3G 130 COLANYL YELLOW H3G 500 HOSTATINT YELLOW H3G 500 HOSTATINT YELLOW A-H3G 100
Pigment Yellow 155	200310	GRAPHTOL YELLOW 3GP GRAPHTOL YELLOW 3GP-LHC INK JET YELLOW 4G INK JET YELLOW 4GC NOVOPERM YELLOW 4G 01 NOVOPERM YELLOW 5GD 71 TONER YELLOW 4G TONER YELLOW 3GP	HOSTAJET YELLOW 4G-PT VP 2669 HOSTAPRINT YELLOW 3GP HOSTATINT YELLOW E-5GD VISCOFIL YELLOW 2GLL

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Yellow 174	21098	PERMANENT YELLOW GRS 80	
Pigment Yellow 175	11784	HOSTAPERM YELLOW H6G	
Pigment Yellow 176	21103	PERMANENT YELLOW GRX 83	
		PERMANENT YELLOW GRX 86	
Pigment Yellow 180	21290	NOVOPERM YELLOW P-HG	HOSTACOPY HG-Y 101
		PV FAST YELLOW HG	HOSTAPRINT YELLOW HG
		PV FAST YELLOW HG 01	HOSTASIN YELLOW HG
		TONER YELLOW HG	
Pigment Yellow 181	11777	NOVOPERM YELLOW H3R	
		NOVOPERM YELLOW H3R-LA	
		PV FAST YELLOW H3R	
		PV FAST YELLOW H3R-LHC	
Pigment Yellow 184	771740	HOSTAPERM OXIDE YELLOW BV 02	COLANYL OXIDE YELLOW BV 100
			COLANYL OXIDE YELLOW BV 530
			HOSTATINT OXIDE YELLOW BV 530
			HOSTATINT OXIDE YELLOW A-BV 100
Pigment Yellow 191	18795	PV FAST YELLOW HGR	HOSTAPRINT YELLOW HGR
		PV FAST YELLOW H2GR	
Pigment Yellow 192	—	POLYSYNTHREN YELLOW RL	
		POLYSYNTHREN YELLOW RL-LHC	
Pigment Yellow 194	11785	NOVOPERM YELLOW F2G	HOSTATINT YELLOW A-F2G 100
Pigment Yellow 213	—	HOSTAPERM YELLOW H5G	
Pigment Yellow 214	—	PV FAST YELLOW H9G	

6.1

PIGMENT ORANGE

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Orange 4	12459		VISCOFIL ORANGE GRVD
Pigment Orange 5	12075	HANSA RED GG	COLANYL RED GG 131 COLANYL RED GG 500
Pigment Orange 13	21110	GRAPHTOL ORANGE GPS PERMANENT ORANGE G	FLEXONYL ORANGE SP-G FLEXONYL ORANGE WF 131 HOSTASIN ORANGE G 30 VISCOFIL ORANGE GG 30 VP 3525
Pigment Orange 34	21115	GRAPHTOL ORANGE RL PERMANENT ORANGE RL 01 PERMANENT ORANGE RL 70	RENOL ORANGE RL-HW 30 VISCOFIL ORANGE RL 30 VP 3930
Pigment Orange 36	11780	NOVOPERM ORANGE HL NOVOPERM ORANGE HL 70 NOVOPERM ORANGE HL 70-NF	HOSTATINT ORANGE HLD 530 HOSTATINT ORANGE A-HLD 100 HOSTATINT ORANGE E-HLD
Pigment Orange 38	12367	GRAPHTOL RED HFG NOVOPERM RED HFG	HOSTAPRINT RED HFG
Pigment Orange 43	71105	HOSTAPERM ORANGE GR PV FAST ORANGE GRL	HOSTATINT ORANGE GR 500
Pigment Orange 62	11775	NOVOPERM ORANGE H5G 70	
Pigment Orange 64	12760	PV FAST ORANGE H2GL PV FAST ORANGE H2GL-LHC	
Pigment Orange 68	486150	PV FAST ORANGE 6RL PV FAST ORANGE 6RL-LHC	
Pigment Orange 70	—	POLYSYNTHREN BROWN 3RL	
Pigment Orange 72	211095	PV FAST ORANGE H4GL 01	HOSTAPRINT ORANGE H4GL
Pigment Orange 74	—	PERMANENT ORANGE 2RLD 71	HOSTATINT ORANGE 2RLD 500 HOSTATINT ORANGE A-2RLD 100 HOSTATINT ORANGE E-2RLD

6.1

PIGMENT RED

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Red 2	12310	PERMANENT RED FRR	VISCOFIL RED AGN VISCOFIL RED GVD
Pigment Red 3	12120	HANSA SCARLET RNC HANSA RED B HANSA RED 3B	
Pigment Red 4	12085	HANSA RED R	
Pigment Red 5	12490	PERMANENT CARMINE FB 01	COLANYL CARMINE FB 130 COSMENYL CARMINE FB 01 COSMENYL RED BLS GRAN. VISCOFIL RED BL
Pigment Red 9	12460	PERMANENT RED FRLL 01	COLANYL RED FRLL 131
Pigment Red 12	13385	PERMANENT BORDEAUX FRR	
Pigment Red 14	12380	PERMANENT BORDEAUX FGR	
Pigment Red 32	12320		VISCOFIL RUBINE BFVD
Pigment Red 38	21120	GRAPHTOL RED BB	HOSTASIN RED B 30
Pigment Red 48:2	15865:2	GRAPHTOL RED P2B NOVOTEX RED ARCY PERMANENT RED LB 01	AGROCER 482 AGROCER 482 DISP.
Pigment Red 48:3	15865:3	GRAPHTOL FIRE RED 3RLP	
Pigment Red 48:4	15865:4	NOVOPERM RED 5BLS NOVOPERM RED BLS 02	
Pigment Red 53:1	15585:1	GRAPHTOL RED LC GRAPHTOL RED LG PERMANENT LAKE RED LCLL PERMANENT LAKE RED LCY	HOSTASIN RED LC 30

6.1

PIGMENT RED

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Red 57:1	15850:1	COSMETIC RED 3B	
		GRAPHTOL RUBINE L4B	
		PERMANENT RUBINE L4B 01	
		PERMANENT RUBINE L5B 01	
		PERMANENT RUBINE L5BT	
		PERMANENT RUBINE P-L7B 01	
		PERMANENT RUBINE LPM	
Pigment Red 101	77491		COLANYL OXIDE RED B 130
			COLANYL OXIDE RED B 530
			COLANYL OXIDE RED G 130
			COLANYL OXIDE RED G 530
			HOSTAFINE TRANSOXIDE RED B 30
			HOSSTATINT OXIDE RED B 500
			HOSSTATINT OXIDE RED A-B 100
			HOSSTATINT OXIDE RED E-OR
			HOSSTATINT TRANSOXIDE RED A-G 100
			HOSSTATINT TRANSOXIDE RED B 500
Pigment Red 112	12370	PERMANENT RED FGR	AGROCER RED 112
		PERMANENT RED FGR 02	AGROCER RED 112 DISP.
		PERMANENT RED FGR 03	COLANYL RED FGR 131
		PERMANENT RED FGR 70	COLANYL RED FGR 530
			COLANYL RED FGRD 500
			COLANYL RED FGRG 130
			FLEXONYL RED SP-FGR
			HOSTAFINE RED FGR
			HOSSTATINT RED A-FGRD 131 R
			HOSSTATINT RED FGR 500

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Red 122	73915	HOSTAPERM PINK E	COLANYL PINK E 130
		HOSTAPERM PINK E TRANSP. 01	COLANYL PINK E 531
		HOSTAPERM PINK E 02	COLANYL PINK E-WD 530
		HOSTAPERM PINK EB TRANSP.	HOSTACOPY E 02-M 101
		HOSTAPERM PINK E-WD	HOSTAFINE MAGENTA E
		INK JET MAGENTA E 02	HOSTAJET MAGENTA E-PT
		PV FAST PINK E	HOSTAPRINT PINK E
		PV FAST PINK E-LHC	HOSTATINT PINK E 530
		PV FAST PINK E 01	HOSTATINT PINK A-E 100
		PV FAST PINK E2B	HOSTATINT PINK E-E
		TONER MAGENTA E	
TONER MAGENTA E 02			
Pigment Red 144	20735	PV FAST RED 3B	
Pigment Red 146	12485	NOVOTEX CARMINE FBB	FLEXONYL CARMINE SP-FBB
		PERMANENT CARMINE FBB 02	HOSTACOPY FBB 02-M 101
			RENOL CARMINE FBB-HW 30
Pigment Red 147	12433	PERMANENT PINK F3B 01	
Pigment Red 149	71137	PV FAST RED B	HOSTAPRINT RED B
		PV FAST RED B-LHC	
Pigment Red 168	59300	HOSTAPERM SCARLET GO	COLANYL SCARLET GO 130
		HOSTAPERM SCARLET GO TRANSP.	COLANYL SCARLET GO 530
			HOSTATINT SCARLET GO 500
Pigment Red 170	12475	GRAPHTOL RED F3RK 70	HOSTAFINE RED F5RK
		GRAPHTOL RED F3RK-LHC	HOSTATINT RED A-F3RKD 100
		GRAPHTOL RED F5RK	HOSTATINT RED E-F3RKD
		NOVOPERM RED F2RK 70	RENOL RED F5RK-HW 30
		NOVOPERM RED F3RK 70	VISCOFIL RED F5RK 30 VP 3501
		NOVOPERM RED F5RK	
Pigment Red 176	12515	NOVOTEX RED F4RK	
		GRAPHTOL CARMINE HF3C	
		GRAPHTOL CARMINE HF3C-LHC	
		NOVOPERM CARMINE HF3C	

6.1

PIGMENT RED

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Red 179	71130	HOSTAPERM RED P2GL-WD	HOSTAFINE RED P2GL
Pigment Red 181/ Vat Red 1	73360	COSMETIC PINK RC 01	
Pigment Red 184	12487	PERMANENT RUBINE F6B	HOSTAFINE RUBINE F6B
		PERMANENT RUBINE F6B 01	
		PERMANENT RUBINE P-F7B	
Pigment Red 185	12516	GRAPHTOL CARMINE HF4C	HOSTAPRINT CARMINE HF4C
		NOVOPERM CARMINE HF4C	
Pigment Red 187	12486	NOVOPERM RED HF4B	
		PV FAST RED HF4B	
Pigment Red 188	12467	NOVOPERM RED HF3S	COLANYL RED HF3S 500
		NOVOPERM RED HF3S 70	HOSTAFINE RED HF3S
Pigment Red 208	12514	GRAPHTOL RED HF2B	HOSTAPRINT RED HF2B
		NOVOPERM RED HF2B 01	HOSTASIN RED HF2B 30
			RENOL RED HF2B-HW 30
Pigment Red 210	12477	PERMANENT RED P-FK	
Pigment Red 214	200660	NOVOPERM RED BN	
		PV FAST RED BNP	
Pigment Red 242	20067	NOVOPERM SCARLET 4RF 01	
		PV FAST SCARLET 4RF	
Pigment Red 247	15915	PV FAST RED HB	
		PV FAST RED HB-LHC	
Pigment Red 254	56110	HOSTAPERM RED D2G 70	COLANYL RED D3GD 500
		HOSTAPERM RED D3G 70	HOSTAJET RED D3G-PT VP 5121
		PV FAST RED D3G	HOSTAPRINT RED D3G
			HOSTATINT RED D3GD 500
			HOSTATINT RED A-D3GD 100
		HOSTATINT RED E-D3GD	
Pigment Red 285	—	PV FAST RED HGR	

6.1

PIGMENT VIOLET

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Violet 19	73900	HOSTAPERM RED E2B 70	COLANYL RED E3B 130
		HOSTAPERM RED E3B	COLANYL RED E3B 500
		HOSTAPERM RED E5B 02	HOSTAJET MAGENTA E5B-PT VP 3565
		HOSTAPERM RED VIOLET ER 02	HOSTAPRINT RED E5B
		INK JET MAGENTA E5B 02	HOSTATINT RED VIOLET A-ER 100
		PV FAST RED E3B	HOSTATINT RED VIOLET E-ER
		PV FAST RED E5B	
		PV FAST RED E4G	
Pigment Violet 23	51319	HOSTAPERM VIOLET BL 01	AGROCER VIOLET 023
		HOSTAPERM VIOLET RL SPEC.	AGROCER VIOLET 023 DISP.
		HOSTAPERM VIOLET RL-NF	COLANYL VIOLET RL 131
		HOSTAPERM VIOLET RL 02	COLANYL VIOLET RL 500
		HOSTAPERM VIOLET P-RL	COSMENYL VIOLET RL
		PV FAST VIOLET BLP	HOSTAFINE VIOLET RL
		PV FAST VIOLET RL	HOSTAPRINT VIOLET RL
			HOSTATINT RED E-E3B
			HOSTATINT VIOLET RL 530
			HOSTATINT VIOLET A-RL 100
	HOSTATINT VIOLET E-BL		
	VISCOFIL VIOLET BLNL		
Pigment Violet 32	12517	GRAPHTOL BORDEAUX HF3R	HOSTAPRINT BORDEAUX HF3R
		NOVOPERM BORDEAUX HF3R	VISCOFIL BORDEAUX BB 30

6.1

PIGMENT BLUE

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Blue 15	74160	GRAPHTOL BLUE AN	COSMENYL BLUE BLS GRAN. VISCOFIL BLUE ARN VISCOFIL BLUE BL 500 VISCOFIL BLUE FRVD
Pigment Blue 15:1	74160	HOSTAPERM BLUE A2R HOSTAPERM BLUE A4R HOSTAPERM BLUE BT-728-D HOSTAPERM BLUE BT-729-D PV FAST BLUE A2R PV FAST BLUE A4R PV FAST BLUE A4R-LHC	COLANYL BLUE A2R 131 COLANYL BLUE A2R 500 COSMENYL BLUE A4R HOSTAPRINT BLUE A2R HOSTASIN BLUE A2R 30
Pigment Blue 15:2	74160	HOSTAPERM BLUE BT-627-D	
Pigment Blue 15:3	74160	HOSTAPERM BLUE B2G HOSTAPERM BLUE B2G-L HOSTAPERM BLUE B4G PV FAST BLUE BG PV FAST BLUE BG-LHC	AGROCER BLUE 153 AGROCER BLUE 153 DISP. COLANYL BLUE B2G 131 COLANYL BLUE B2G 500 FLEXONYL BLUE WF 153 HOSTACOPY BG-C 101 HOSTAFINE BLUE B2G HOSTAJET CYAN BG-PT HOSTAPRINT BLUE B2G HOSTATINT BLUE B2G 500 HOSTATINT BLUE A-BG 100 HOSTATINT BLUE E-B2G RENOL BLUE B2G-HW 30 VISCOFIL BLUE B2G 30 VP 3494
Pigment Blue 15:4	74160	HOSTAPERM BLUE BT-617-D	
Pigment Blue 28	77346		COLANYL OXIDE BLUE COR 100 COLANYL OXIDE BLUE COR 530 HOSTATINT OXIDE BLUE COR 500

6.1

PIGMENT GREEN

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Green 7	74260	HOSTAPERM GREEN GNX	AGROCER GREEN 007
		HOSTAPERM GREEN GNX-C	AGROCER GREEN 007 DISP.
		PV FAST GREEN GNX	COLANYL GREEN GG 131
			COLANYL GREEN GG 500
			COSMENYL GREEN GG
			COSMENYL GREEN 2GLS GRAN.
			HOSTAFINE GREEN GN
			HOSTAPRINT GREEN GG
			HOSTASIN GREEN GG 30
			HOSTATINT GREEN GG 500
			HOSTATINT GREEN A-GNX 100
			HOSTATINT GREEN E-3GLS
			RENOL GREEN GG-HW 30
Pigment Green 17	77288		VISCOFIL GREEN A-GNS
			COLANYL OXIDE GREEN G 131
			COLANYL OXIDE GREEN G 530
Pigment Green 36	74265		HOSTATINT OXIDE GREEN G 500
			HOSTAJET GREEN 8G-PT VP 5154
Pigment Green 50	77377		COLANYL OXIDE GREEN CO 130
			HOSTATINT OXIDE GREEN CO 500

6.1

PIGMENT BROWN PIGMENT BLACK

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment Brown 24	77310		COLANYL OXIDE YELLOW CR 130 COLANYL OXIDE YELLOW CR 530 HOSTATINT OXIDE YELLOW A-CR 100 HOSTATINT OXIDE YELLOW E-CT
Pigment Brown 25	12510	HOSTAPERM BROWN HFR 01 PV FAST BROWN HFR	HOSTAPRINT BROWN HFR RENOL BROWN HFR-HW 30 VISCOFIL BROWN HFR 30
Pigment Brown 41	—	PV FAST BROWN RL	HOSTAPRINT BROWN RL
Pigment Black 7	77266		COLANYL BLACK N 131 COLANYL BLACK N 500 COLANYL BLACK PR 130 COSMENYL BLACK R FLEXONYL BLACK A-CB FLEXONYL BLACK PR 100 FLEXONYL BLACK WF 007 FLEXOPRINT BLACK CB 01 HOSTAFINE BLACK T 30 HOSTAFINE BLACK TS 30 HOSTAJET BLACK O-PT HOSTAPRINT BLACK L HOSTATINT BLACK GR 500 HOSTATINT BLACK A-N 100 HOSTATINT BLACK E-BLN RENOL BLACK R-HW 30 VISCOFIL BLACK AV VISCOFIL BLACK 2BLN VISCOFIL BLACK VBC
Pigment Black 11	77499		COLANYL OXIDE BLACK B 100 COLANYL OXIDE BLACK B 530 COLANYL OXIDE OLIVE GS 130
Pigment Black 33	77537		HOSTATINT OXIDE BLACK B 530

6.1

PIGMENT WHITE

COLOUR INDEX GENERIC NAME	NO.	STANDARD RANGES AND OTHER GRADES	PREPARATIONS
PIGMENTS			
Pigment White 6	77891		COLANYL WHITE R 130
			COLANYL WHITE R 500
			FLEXONYL WHITE R 130
			FLEXONYL WHITE RL 130
			FLEXONYL WHITE RS
			HOSTATINT WHITE R 500
			HOSTATINT WHITE A-R 100
			HOSTATINT WHITE E-TD
			RENOL WHITE T-HW 30
			VISCOFIL WHITE A-RCL 30

6.2 DYES

COLOUR INDEX GENERIC NAME	NO.	DYE RANGES
DYES		
Acid Yellow 3 (Food Yellow 13)	47005	SANOLIN QUINOLINE YELLOW 70
Acid Yellow 23 (Food Yellow 4)	19140	DUASYN ACID YELLOW XX-SF DUASYN ACID YELLOW XX-SF LIQUID SANOLIN TARTRAZINE X 90
Acid Red 18 (Food Red 7)	16255	SANOLIN PONCEAU 4RC 82 SANOLIN PONCEAU SP LIQUID
Acid Red 52	45100	SANOLIN RHODAMINE B 02
Acid Red 249	18134	SANOLIN RED NBG
Acid Violet 48	—	SANOLIN VIOLET FBL SANOLIN VIOLET AS-FBL LIQUID
Acid Violet 54	—	SANOLIN RED N-6B
Acid Violet 66	—	SAVINYL DARK VIOLET R
Acid Violet 126	—	SANOLIN VIOLET E2R SANOLIN VIOLET AS-E2R LIQUID
Acid Blue 1	42045	DUASYN TURQUOISE E-VS
Acid Blue 9 (Food Blue 2)	42090	DUASYN ACID BLUE AE LIQUID DUASYN ACID BLUE AE-SF 30 LIQUID DUASYN ACID BLUE AE 03 SANOLIN BLUE AE 90
Acid Blue 80	61585	SANOLIN BLUE NBL
Acid Blue 93	42780	DUASYN INK BLUE SLK
Acid Blue 182	—	SANOLIN BLUE EHRL SANOLIN BLUE EHRL LIQUID
Acid Green 81	—	SANOLIN GREEN 6GLN

COLOUR INDEX GENERIC NAME	NO.	DYE RANGES
DYES		
Direct Yellow 28	19555	SANOLIN YELLOW BG 30
Direct Yellow 132	—	CARTASOL YELLOW 3GF LIQUID DUASYN YELLOW 3GF-SF LIQUID
Direct Violet 66	29120	SANOLIN VIOLET AS-SP LIQUID
Direct Blue 199	74190	DUASYNJET CYAN FRL-SF LIQUID DUASYN CYAN R-SF LIQUID VP 5160 SANOLIN CYAN FRL 10 LIQUID SANOLIN TURQUOISE BLUE FBL
Direct Black 168	—	DUASYN BLACK HEF-SF LIQUID
Disperse Yellow 201 (Solvent Yellow 179)	—	SOLVAPERM YELLOW 6G
Disperse Orange 47 (Solvent Orange 107)	—	SOLVAPERM ORANGE R
Disperse Violet 26 (Solvent Violet 59)	62025	SOLVAPERM RED VIOLET R
Food Yellow 3	15985	SANOLIN ORANGE RGL 90
Food Blue 5:2	42051:2	SANOLIN PATENT BLUE V 85 01
Reactive Red 180	181055	DUASYN BRILLIANT RED F3B-SF LIQUID
Reactive Green 12	—	SANOLIN GREEN R-3GL SANOLIN GREEN R-3GL LIQUID

6.2 DYES

COLOUR INDEX GENERIC NAME	NO.	DYE RANGES
DYES		
Solvent Yellow 14	12055	FAT ORANGE R 01
Solvent Yellow 16	12700	FAT YELLOW 3G
Solvent Yellow 62	—	SAVINYL YELLOW 2RLS
Solvent Yellow 79	—	SAVINYL YELLOW 2GLS 01
Solvent Yellow 83	—	SAVINYL YELLOW RLSN
Solvent Yellow 83:1	—	SAVINYL YELLOW RLS
Solvent Yellow 93	48160	SOLVAPERM YELLOW 3G
Solvent Yellow 98	56238	HOSTASOL YELLOW 3G
Solvent Yellow 114	47020	SOLVAPERM YELLOW 2G
Solvent Yellow 133	48580	POLYSYNTHREN YELLOW GG
Solvent Yellow 179 (Disperse Yellow 201)	—	SOLVAPERM YELLOW 6G
Solvent Orange 41	—	SAVINYL ORANGE RLS
Solvent Orange 60	564100	SOLVAPERM ORANGE 3G
Solvent Orange 62	—	SAVINYL ORANGE RLSE
Solvent Orange 63	68550	HOSTASOL RED GG
Solvent Orange 107 (Disperse Orange 47)	—	SOLVAPERM ORANGE R
Solvent Red 91	—	SAVINYL RED 3BLS
Solvent Red 111	60505	SOLVAPERM RED PFS
Solvent Red 124	—	SAVINYL FIRE RED 3GLS
Solvent Red 127	—	SAVINYL PINK 6BLS
Solvent Red 135	564120	SOLVAPERM RED G POLYSYNTHREN RED GFP
Solvent Red 179	564150	SOLVAPERM RED 2G SOLVAPERM RED 2G-LHC
Solvent Red 195	—	SOLVAPERM RED BB
Solvent Red 212	—	POLYSYNTHREN RED GG

COLOUR INDEX GENERIC NAME	NO.	DYE RANGES
DYES		
Solvent Violet 13	60725	SOLVAPERM VIOLET RSB
Solvent Violet 49	48520	POLYSYNTHREN VIOLET G
Solvent Violet 59 (Disperse Violet 26)	62025	SOLVAPERM RED VIOLET R
Solvent Blue 35	61554	FAT BLUE B 01
Solvent Blue 44	—	SAVINYL BLUE GLS
Solvent Blue 45	—	POLYSYNTHREN BLUE RLS SAVINYL BLUE RS
Solvent Blue 67	—	SOLVAPERM BLUE GN
Solvent Blue 104	61568	SOLVAPERM BLUE 2B
Solvent Blue 122	60744	POLYSYNTHREN BLUE R
Solvent Green 3	61565	SOLVAPERM GREEN GSB
Solvent Green 28	625580	SOLVAPERM GREEN G
Solvent Brown 53	48525	POLYSYNTHREN BROWN R
Solvent Black 27	—	POLYSYNTHREN BLACK H
Vat Red 1/ Pigment Red 181	73360	COSMETIC PINK RC 01
Vat Red 41	73300	HOSTASOL RED 5B

OPTICAL BRIGHTENERS

7.1 Telalux

7.1 TELALUX

The Telalux grades are fluorescent whitening agents that were developed for brightening (whitening) of white plastics. They are suitable for all plastics and fibers. Plastics are polystyrene (PS), styrene-acrylonitrile (SAN), acrylonitrile-butadiene-styrene (ABS), as well as polyester (PET/PBT), polyethylene (LDPE/LLDPE/HDPE), polypropylene (PP), polyamide (PA), polymethylmethacrylate (PMMA), polycarbonate (PC), plasticized PVC and unplasticized PVC and in some extend polyethylene vinyl acetate (EVA).

The optical brighteners give brilliant transparent effects in glass-clear plastics. In pigmented white plastics they give brilliant, high white effects with different shades depending on the nature of their structure.

The Telalux optical brighteners have excellent resistance to heat and migration in recommended polymers and concentrations as well as good light fastness and weather resistance.

PRODUCT	PET/PBT	PE	PP	PS	SAN	ABS	PC	PMMA	PA	PVC-U	PVC-P	EVA
KCB p	●	●	●	●	●	●	●	●	●	■	■	■
KS p	■	■	■	■	■	■	■	■	■	●	○	—
KSB p	■	■	■	■	■	■	■	■	■	●	○	—
KSB3 p	■	—	—	■	■	■	■	■	■	—	—	—
KSN p	■	■	■	■	■	■	■	■	■	●	○	—
KSC p	—	—	—	—	—	—	—	—	—	■	■	—
KS1B p	■	—	—	■	●	●	—	—	■	—	—	—
KS1 p	■	—	—	■	●	●	—	—	■	—	—	—
KS2 p	■	■	■	■	■	■	■	■	■	●	○	—
KS2S p	■	■	■	■	■	■	■	■	■	●	○	—
NSM p*	—	—	—	—	—	—	—	—	—	—	—	—
OB	■	■	■	■	●	■	■	●	■	■	■	●
OB1	■	—	—	■	●	●	—	—	■	—	—	—
OB1A	■	—	—	■	●	●	—	—	■	—	—	—

* = Only for PAN dry spinning ■

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BUSINESS UNIT PIGMENTS

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