



**SALES RANGE  
FOR PRINTING, PAINTS,  
PLASTICS INDUSTRIES AND  
SPECIAL APPLICATIONS**

# PIGMENTS, PIGMENT PREPARATIONS AND DYES **FROM HEUBACH**

Heubach 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 Heubach 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®**  
**CARTAX®**  
**COLANYL®**  
**COSMENYL®**  
**DUASYN®**  
**FLEXONYL®**  
**FLEXOPRINT®**  
**GRAPHTOL®**  
**HANSA®**  
**HDK®<sup>2</sup>**  
**HOSTACOPY®<sup>1</sup>**  
**HOSTAFINE®<sup>1</sup>**  
**HOSTAJET®<sup>1</sup>**  
**HOSTANOL®<sup>1</sup>**  
**HOSTAPERM®<sup>1</sup>**

**HOSTAPRINT®<sup>1</sup>**  
**HOSTASIN®<sup>1</sup>**  
**HOSTASOL®<sup>1</sup>**  
**HOSTATINT™**  
**LICOSPERSE™**  
**NOVOPERM®**  
**POLYSYNTHREN®**  
**PV FAST®**  
**SANODAL®**  
**SANODURE®**  
**SANODYE®**  
**SANOLIN®**  
**SAVINYL®**  
**SOLVAPERM®**  
**TELALUX®**  
**VISCOFIL®**

<sup>™</sup> Trademark

® Trademark of Heubach registered in many countries

®<sup>1</sup> Registered trademark

®<sup>2</sup> Trademark of Wacker

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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 AGROCER**

# 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 COA 1013 EN  
 "Decorative paints, industrial paints, automotive paints"  
 Pattern card PI 2014 ED  
 "Hostaperm, Novoperm, Permanent, Hansa – 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
<b>HOSTAPERM OXIDE YELLOW BV 01</b>	Pigment Yellow 184	771740	—	—	—	—	■	■	■	■	●	—
<b>HOSTAPERM OXIDE YELLOW BV 02</b>	Pigment Yellow 184	771740	—	—	—	—	■	■	■	■	●	—
<b>HOSTAPERM YELLOW H6G</b>	Pigment Yellow 175	11784	●	—	○	■	●	●	■	●	●	●
<b>HOSTAPERM YELLOW HN4G*</b>	Pigment Yellow 150	12764	—	—	—	—	—	—	—	—	—	—
<b>HOSTAPERM YELLOW H4G</b>	Pigment Yellow 151	13980	—	—	—	—	○	●	■	■	—	●
<b>HOSTAPERM YELLOW H4G 70</b>	Pigment Yellow 151	13980	—	—	—	—	●	■	■	■	●	●
<b>HOSTAPERM YELLOW H3G</b>	Pigment Yellow 154	11781	●	—	○	○	■	●	●	●	●	●
<b>HOSTAPERM YELLOW H3G 02</b>	Pigment Yellow 154	11781	—	—	—	—	■	●	○	—	■	—
<b>HOSTAPERM ORANGE GR</b>	Pigment Orange 43	71105	●	—	●	○	●	●	●	●	■	●
<b>HOSTAPERM SCARLET GO</b>	Pigment Red 168	59300	●	—	●	●	■	■	●	●	■	●
<b>HOSTAPERM RED D3G 70-CN</b>	Pigment Red 254	56110	■	—	●	●	●	●	■	●	●	●
<b>HOSTAPERM RED D3G 73</b>	Pigment Red 254	56110	■	—	●	●	●	●	■	●	●	●
<b>HOSTAPERM RED D2G 71</b>	Pigment Red 254	56110	—	—	—	—	■	■	■	●	●	●
<b>HOSTAPERM RED D2G 72</b>	Pigment Red 254	56110	—	—	—	—	■	■	■	●	●	●
<b>HOSTAPERM RED P2GL-WD</b>	Pigment Red 179	71130	—	—	—	—	■	●	●	—	—	—
<b>HOSTAPERM PINK E 02</b>	Pigment Red 122	73915	■	—	●	■	—	—	—	—	—	—
<b>HOSTAPERM RED E2B 70</b>	Pigment Violet 19	73900	●	—	●	●	■	●	●	—	—	●
<b>HOSTAPERM RED E3B</b>	Pigment Violet 19	73900	●	—	●	●	—	●	■	●	●	●
<b>HOSTAPERM RED E5B 02</b>	Pigment Violet 19	73900	●	—	●	●	●	○	■	●	●	●
<b>HOSTAPERM PINK E</b>	Pigment Red 122	73915	●	—	●	■	■	■	■	●	●	●
<b>HOSTAPERM PINK E WD 01</b>	Pigment Red 122	73915	—	—	—	—	—	—	●	—	■	●
<b>HOSTAPERM PINK EB TRANSP.</b>	Pigment Red 122	73915	—	—	—	—	■	■	●	—	—	●

\* Regarding printing application it is only recommended for decorative laminates



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<b>HOSTAPERM RED VIOLET ER 02</b>	Pigment Violet 19	73900	●	–	●	●	■	■	■	●	●	●
<b>HOSTAPERM VIOLET BL 01</b>	Pigment Violet 23	51319	●	–	●	■	■	■	●	●	–	
<b>HOSTAPERM VIOLET RL SPEC. 01</b>	Pigment Violet 23	51319	●	–	●	■	■	■	●	●	●	
<b>HOSTAPERM VIOLET RL 02</b>	Pigment Violet 23	51319	■	–	○	■	–	–	–	–	–	
<b>HOSTAPERM VIOLET P-RL</b>	Pigment Violet 23	51319	○	–	■	○	–	–	–	–	●	
<b>HOSTAPERM BLUE A4R</b>	Pigment Blue 15:1	74160	–	–	–	–	●	●	■	■	●	–
<b>HOSTAPERM BLUE BT-627-D</b>	Pigment Blue 15:2	74160	–	–	–	–	■	■	●	–	–	–
<b>HOSTAPERM BLUE B2G 03</b>	Pigment Blue 15:3	74160	–	–	–	–	●	●	■	■	●	●
<b>HOSTAPERM BLUE BT-617-D</b>	Pigment Blue 15:4	74160	–	–	–	–	■	■	●	–	–	–
<b>HOSTAPERM BLUE BT-728-D</b>	Pigment Blue 15:1	74160	–	–	–	–	■	■	–	–	–	–
<b>HOSTAPERM BLUE BT-729-D</b>	Pigment Blue 15:1	74160	–	–	–	–	■	■	–	–	–	–
<b>HOSTAPERM GREEN GNX</b>	Pigment Green 7	74260	–	–	–	–	●	●	■	●	●	–
<b>HOSTAPERM GREEN GNX 01</b>	Pigment Green 7	74260	–	–	–	–	●	●	■	●	●	–
<b>HOSTAPERM GREEN GNX 02</b>	Pigment Green 7	74260	–	–	–	–	●	●	■	●	●	–
<b>HOSTAPERM BROWN HFR 01</b>	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

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 “Decorative paints, industrial paints, automotive paints”  
 Pattern card PI 2014 ED  
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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
<b>NOVOPERM YELLOW H10G 01</b>	Pigment Yellow 81	21127	●	–	●	●	–	–	●	–	–	●
<b>NOVOPERM YELLOW P-HG</b>	Pigment Yellow 180	21290	●	–	■	○	–	–	–	–	–	●
<b>NOVOPERM YELLOW FGL</b>	Pigment Yellow 97	11767	●	–	●	●	–	–	●	○	■	●
<b>NOVOPERM YELLOW F2G</b>	Pigment Yellow 194	11785	●	–	–	■	–	–	■	■	●	●
<b>NOVOPERM YELLOW 5GD 71</b>	Pigment Yellow 155	200310	●	–	●	●	○	●	■	■	●	●
<b>NOVOPERM YELLOW 4G 01</b>	Pigment Yellow 155	200310	●	–	●	●	–	–	●	●	–	–
<b>NOVOPERM YELLOW H3R</b>	Pigment Yellow 181	11777	●	–	●	■	–	–	–	–	–	–
<b>NOVOPERM YELLOW H3R-LA</b>	Pigment Yellow 181	11777	–	–	–	■	–	–	–	–	–	–
<b>NOVOPERM YELLOW HR</b>	Pigment Yellow 83	21108	●	–	●	●	–	–	●	●	●	●
<b>NOVOPERM YELLOW HR 02</b>	Pigment Yellow 83	21108	■	–	–	■	–	–	●	●	–	●
<b>NOVOPERM YELLOW HR 04</b>	Pigment Yellow 83	21108	●	–	■	●	–	–	–	–	–	●
<b>NOVOPERM YELLOW P-HRE</b>	Pigment Yellow 83	21108	–	–	■	–	–	–	–	–	–	–
<b>NOVOPERM YELLOW HR 70</b>	Pigment Yellow 83	21108	●	–	–	●	○	●	■	■	●	●
<b>NOVOPERM YELLOW HR 72</b>	Pigment Yellow 83	21108	–	–	–	–	○	●	■	●	○	–
<b>NOVOPERM YELLOW M2R 70</b>	Pigment Yellow 139	56298	–	–	–	–	●	●	■	■	–	–
<b>NOVOPERM YELLOW P-M3R</b>	Pigment Yellow 139	56298	●	–	■	–	–	–	○	–	–	–
<b>NOVOPERM ORANGE H5G 70</b>	Pigment Orange 62	11775	●	–	●	●	○	●	■	●	●	●
<b>NOVOPERM ORANGE HL</b>	Pigment Orange 36	11780	●	–	●	●	–	–	●	●	●	●
<b>NOVOPERM ORANGE HL 70</b>	Pigment Orange 36	11780	●	–	●	●	■	■	■	■	●	●
<b>NOVOPERM ORANGE HL 71</b>	Pigment Orange 36	11780	–	–	–	–	■	■	■	●	●	–

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<b>NOVOPERM RED HFG</b>	Pigment Orange 38	12367	●	-	●	●	-	-	-	●	-	●
<b>NOVOPERM RED HF3S</b>	Pigment Red 188	12467	●	-	●	●	-	-	●	●	■	●
<b>NOVOPERM RED HF3S 70</b>	Pigment Red 188	12467	-	-	-	-	●	●	■	●	●	●
<b>NOVOPERM SCARLET 4RF 01</b>	Pigment Red 242	20067	●	-	●	●	-	-	●	●	●	●
<b>NOVOPERM RED F2RK 70</b>	Pigment Red 170	12475	●	-	●	●	●	●	●	●	-	●
<b>NOVOPERM RED F3RK 70</b>	Pigment Red 170	12475	●	-	●	●	○	●	■	■	-	●
<b>NOVOPERM RED F5RK</b>	Pigment Red 170	12475	●	-	●	■	-	-	■	■	-	●
<b>NOVOPERM RED HF2B 01</b>	Pigment Red 208	12514	●	-	●	●	-	-	-	-	-	●
<b>NOVOPERM CARMINE HF3C</b>	Pigment Red 176	12515	●	-	●	●	-	-	-	-	-	●
<b>NOVOPERM CARMINE HF4C</b>	Pigment Red 185	12516	●	-	●	●	-	-	-	●	-	●
<b>NOVOPERM BORDEAUX HF3R</b>	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 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.

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<b>PERMANENT YELLOW GG 02</b>	Pigment Yellow 17	21105	●	-	■	■	-	-	○	○	-	●
<b>PERMANENT YELLOW DHG</b>	Pigment Yellow 12	21090	■	-	●	●	-	-	○	-	-	●
<b>PERMANENT YELLOW DHG N26</b>	Pigment Yellow 12	21090	-	■	-	-	-	-	-	-	-	-
<b>PERMANENT YELLOW DHG N22</b>	Pigment Yellow 12	21090	-	■	-	-	-	-	-	-	-	-
<b>PERMANENT YELLOW DGR</b>	Pigment Yellow 126	21101	■	-	●	■	-	-	-	-	-	●
<b>PERMANENT YELLOW G</b>	Pigment Yellow 14	21095	■	-	■	-	-	-	-	-	-	-
<b>PERMANENT YELLOW GR</b>	Pigment Yellow 13	21100	■	-	●	■	-	-	○	○	-	●
<b>PERMANENT YELLOW GR 01</b>	Pigment Yellow 13	21100	■	-	●	■	-	-	-	-	-	●
<b>PERMANENT YELLOW P-GRL 06</b>	Pigment Yellow 13	21100	-	-	■	○	-	-	-	-	-	-
<b>PERMANENT YELLOW P-GRL 07</b>	Pigment Yellow 13	21100	-	-	■	-	-	-	-	-	-	-
<b>PERMANENT YELLOW GRS 80</b>	Pigment Yellow 174	21098	■	-	-	-	-	-	-	-	-	-
<b>PERMANENT YELLOW GRY-E82</b>	Pigment Yellow 174	21098	■	-	-	-	-	-	-	-	-	-
<b>PERMANENT YELLOW GRX 83</b>	Pigment Yellow 176	21103	■	-	-	○	-	-	-	-	-	-
<b>PERMANENT YELLOW GRX 86</b>	Pigment Yellow 176	21103	■	-	-	○	-	-	-	-	-	●
<b>PERMANENT YELLOW P-G</b>	Pigment Yellow 14	21095	■	-	■	-	-	-	-	-	-	-
<b>PERMANENT YELLOW P-GXL 08</b>	Pigment Yellow 14	21095	●	-	■	-	-	-	-	-	-	-
<b>PERMANENT ORANGE G</b>	Pigment Orange 13	21110	■	-	●	■	-	-	○	○	-	●
<b>PERMANENT ORANGE G 02</b>	Pigment Orange 13	21110	■	-	●	■	-	-	-	-	-	-
<b>PERMANENT ORANGE RL 01</b>	Pigment Orange 34	21115	■	○	●	■	-	-	○	●	-	●
<b>PERMANENT ORANGE RL 70</b>	Pigment Orange 34	21115	●	-	●	■	-	-	■	■	-	●

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<b>PERMANENT RED FRLL 01</b>	Pigment Red 9	12460	●	–	●	●	–	–	–	–	–	●
<b>PERMANENT LAKE RED LCY</b>	Pigment Red 53:1	15585:1	■	●	●	■	–	–	–	–	–	–
<b>PERMANENT LAKE RED LCLL</b>	Pigment Red 53:1	15585:1	■	●	●	■	–	–	○	–	–	●
<b>PERMANENT RED FRR</b>	Pigment Red 2	12310	●	–	●	■	–	–	–	–	–	●
<b>PERMANENT RED FGR</b>	Pigment Red 112	12370	●	–	●	●	–	–	■	○	■	●
<b>PERMANENT RED FGR 02</b>	Pigment Red 112	12370	●	–	●	●	–	–	■	–	■	●
<b>PERMANENT RED FGR 03</b>	Pigment Red 112	12370	■	–	●	■	–	–	–	–	–	●
<b>PERMANENT RED FGR 70</b>	Pigment Red 112	12370	●	–	●	●	–	–	■	○	■	●
<b>PERMANENT RED LB 01</b>	Pigment Red 48:2	15865:2	●	–	■	○	–	–	–	–	–	–
<b>PERMANENT RED P-FK</b>	Pigment Red 210	12477	○	–	■	○	–	–	–	–	–	●
<b>PERMANENT CARMINE FB 01</b>	Pigment Red 5	12490	–	–	–	–	–	–	–	–	–	●
<b>PERMANENT CARMINE FBB 02</b>	Pigment Red 146	12485	●	–	■	■	–	–	●	–	–	●
<b>PERMANENT RUBINE F6B</b>	Pigment Red 184	12487	●	–	■	■	–	–	–	–	–	●
<b>PERMANENT RUBINE L4B 01</b>	Pigment Red 57:1	15850:1	■	●	–	○	–	–	–	–	–	–
<b>PERMANENT RUBINE L5B 01</b>	Pigment Red 57:1	15850:1	■	●	–	○	–	–	–	–	–	–
<b>PERMANENT RUBINE L5B 02 WD</b>	Pigment Red 57:1	15850:1	●	–	●	■	–	–	–	–	–	–
<b>PERMANENT BORDEAUX FRR</b>	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.

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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
<b>HANSA YELLOW 10G</b>	Pigment Yellow 3	11710	●	-	●	■	-	-	○	-	■	■
<b>HANSA YELLOW 10G 41 GRAN.</b>	Pigment Yellow 3	11710	●	-	-	■	-	-	○	-	■	●
<b>HANSA BRILLIANT YELLOW 9GX</b>	-	-	●	-	-	■	-	-	-	-	-	●
<b>HANSA YELLOW 5GX 01*</b>	Pigment Yellow 74	11741	-	-	-	-	-	-	-	-	-	-
<b>HANSA BRILLIANT YELLOW 5GX</b>	Pigment Yellow 74	11741	-	-	-	-	-	○	-	■	●	
<b>HANSA BRILLIANT YELLOW 5GX 03</b>	Pigment Yellow 74	11741	●	-	●	■	-	-	-	-	-	●
<b>HANSA BRILLIANT YELLOW 4GX</b>	Pigment Yellow 73	11738	●	-	●	■	-	-	○	-	■	●
<b>HANSA YELLOW G 02</b>	Pigment Yellow 1	11680	-	-	●	■	-	-	○	-	■	●
<b>HANSA BRILLIANT YELLOW 2GX 70</b>	Pigment Yellow 74	11741	●	-	●	■	-	-	○	-	■	●
<b>HANSA BRILLIANT YELLOW 2GX 70-S</b>	Pigment Yellow 74	11741	●	-	●	■	-	-	○	-	■	●
<b>HANSA BRILLIANT YELLOW 2GX 72-S</b>	Pigment Yellow 74	11741	-	-	-	-	-	-	○	-	■	●
<b>HANSA RED GG</b>	Pigment Orange 5	12075	●	-	●	■	-	-	○	-	■	●
<b>HANSA RED R</b>	Pigment Red 4	12085	●	-	●	■	-	-	○	-	-	●
<b>HANSA SCARLET RNC</b>	Pigment Red 3	12120	●	-	●	■	-	-	●	-	●	●
<b>HANSA RED B</b>	Pigment Red 3	12120	●	-	●	■	-	-	●	-	●	●
<b>HANSA RED 3B</b>	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
<b>FLEXOPRINT YELLOW HR</b>	Pigment Yellow 83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FLEXOPRINT BLACK CB 01</b>	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
<b>CARTAX CXDP POWDER</b>	-	●	●	-	●	●	●	●	●	●	●	●	●	●	●
<b>CARTAX DP LIQUID</b>	-	-	-	-	-	-	-	-	●	-	-	-	-	-	-

# 1.7 PV FAST

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

## LITERATURE

Pattern card PLA 2001 EN DE  
"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
<b>PV FAST YELLOW H9G</b>	Pigment Yellow 214	—	■	■	●	—	—	—	—	—	●
<b>PV FAST YELLOW H4G</b>	Pigment Yellow 151	13980	■	■	●	—	—	—	—	—	—
<b>PV FAST YELLOW H2G</b>	Pigment Yellow 120	11783	■	■	●	—	—	—	●	—	—
<b>PV FAST YELLOW HG 01</b>	Pigment Yellow 180	21290	●	■	●	●	●	—	■	—	—
<b>PV FAST YELLOW HG</b>	Pigment Yellow 180	21290	●	■	●	●	●	—	■	●	●
<b>PV FAST YELLOW H2GR</b>	Pigment Yellow 191	18795	●	■	●	●	●	—	—	—	—
<b>PV FAST YELLOW HGR</b>	Pigment Yellow 191	18795	●	■	●	●	●	—	●	●	●
<b>PV FAST YELLOW HR 02</b>	Pigment Yellow 83	21108	■	○	—	—	—	—	—	—	●
<b>PV FAST YELLOW HR</b>	Pigment Yellow 83	21108	■	○	—	—	—	—	—	—	—
<b>PV FAST YELLOW HR 03</b>	Pigment Yellow 83	21108	■	○	—	—	—	—	—	—	—
<b>PV FAST YELLOW H3R</b>	Pigment Yellow 181	11777	●	■	●	●	—	—	■	●	●
<b>PV FAST YELLOW H3R-LHC</b>	Pigment Yellow 181	11777	●	■	●	●	—	—	■	●	●
<b>PV FAST ORANGE H4GL 01</b>	Pigment Orange 72	211095	●	■	●	—	—	—	●	●	●
<b>PV FAST ORANGE H2GL</b>	Pigment Orange 64	12760	●	■	●	○	○	—	—	—	—
<b>PV FAST ORANGE GRL</b>	Pigment Orange 43	71105	●	■	●	●	●	○	—	—	●
<b>PV FAST ORANGE 6RL</b>	Pigment Orange 68	486150	●	■	●	●	●	●	—	—	—
<b>PV FAST SCARLET 4RF</b>	Pigment Red 242	20067	■	■	●	●	●	—	—	—	●
<b>PV FAST RED B</b>	Pigment Red 149	71137	●	■	●	●	●	○	●	●	●
<b>PV FAST RED D3G</b>	Pigment Red 254	56110	■	■	○	○	—	—	■	—	●
<b>PV FAST RED HB</b>	Pigment Red 247	15915	●	■	■	●	●	—	—	●	—
<b>PV FAST RED BNP</b>	Pigment Red 214	200660	■	■	●	●	●	—	●	—	●
<b>PV FAST RED HF4B</b>	Pigment Red 187	12486	■	●	●	●	●	—	—	—	●
<b>PV FAST RED E3B</b>	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
<b>PV FAST RED E5B</b>	Pigment Violet 19	73900	●	■	●	●	●	○	-	-	●
<b>PV FAST PINK E</b>	Pigment Red 122	73915	●	■	●	●	●	○	-	-	●
<b>PV FAST PINK E 01</b>	Pigment Red 122	73915	●	■	●	●	●	○	-	-	●
<b>PV FAST PINK E2B</b>	Pigment Red 122	73915	●	■	●	●	●	○	-	-	●
<b>PV FAST VIOLET BLP</b>	Pigment Violet 23	51319	●	■	●	-	-	○	-	-	●
<b>PV FAST VIOLET RL</b>	Pigment Violet 23	51319	●	■	●	-	-	○	-	-	●
<b>PV FAST BLUE A4R</b>	Pigment Blue 15:1	74160	■	■	●	○	○	-	-	-	●
<b>PV FAST BLUE A2R</b>	Pigment Blue 15:1	74160	■	■	●	○	○	○	-	●	●
<b>PV FAST BLUE BG</b>	Pigment Blue 15:3	74160	■	■	●	●	●	●	-	■	●
<b>PV FAST GREEN GNX</b>	Pigment Green 7	74260	■	■	●	●	●	○	-	-	●
<b>PV FAST BROWN HFR</b>	Pigment Brown 25	12510	■	●	-	-	-	-	-	-	●
<b>PV FAST BROWN RL</b>	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 PLA 2001 EN DE  
"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
<b>GRAPHTOL YELLOW GG</b>	Pigment Yellow 17	21105	■	○	—	—	—	—	—	●
<b>GRAPHTOL YELLOW 3GP</b>	Pigment Yellow 155	200310	●	■	●	—	—	—	○	●
<b>GRAPHTOL YELLOW GR</b>	Pigment Yellow 13	21100	■	○	—	—	—	—	—	●
<b>GRAPHTOL YELLOW H2R</b>	Pigment Yellow 139	56298	●	■	—	—	—	—	○	●
<b>GRAPHTOL ORANGE RL</b>	Pigment Orange 34	21115	■	○	—	—	—	—	—	●
<b>GRAPHTOL RED HF3</b>	Pigment Orange 38	12367	■	●	—	—	—	—	—	●
<b>GRAPHTOL RED LG</b>	Pigment Red 53:1	15585:1	■	■	●	—	●	—	—	●
<b>GRAPHTOL RED LC</b>	Pigment Red 53:1	15585:1	■	■	●	—	●	—	○	—
<b>GRAPHTOL RED BB</b>	Pigment Red 38	21120	●	○	—	—	—	—	—	—
<b>GRAPHTOL RED F3RK 70</b>	Pigment Red 170	12475	—	■	—	—	—	—	—	●
<b>GRAPHTOL FIRE RED 3RLP</b>	Pigment Red 48:3	15865:3	■	■	●	—	—	—	○	●
<b>GRAPHTOL RED HF2B</b>	Pigment Red 208	12514	■	○	—	—	—	—	—	●
<b>GRAPHTOL RED F5RK</b>	Pigment Red 170	12475	—	■	—	—	—	—	—	●
<b>GRAPHTOL RED P2B</b>	Pigment Red 48:2	15865:2	■	■	●	—	—	—	—	●
<b>GRAPHTOL CARMINE HF4C</b>	Pigment Red 185	12516	■	●	●	—	—	—	—	●
<b>GRAPHTOL CARMINE HF3C</b>	Pigment Red 176	12515	■	●	●	—	●	—	—	●
<b>GRAPHTOL RUBINE L4B</b>	Pigment Red 57:1	15850:1	■	■	○	—	—	—	○	●
<b>GRAPHTOL BORDEAUX HF3R</b>	Pigment Violet 32	12517	■	○	—	—	—	—	—	●
<b>GRAPHTOL BLUE AN 01</b>	Pigment Blue 15	74160	■	—	—	—	—	—	—	●
<b>GRAPHTOL BLACK CLN VP 6274</b>	—	—	■	■	●	—	—	—	—	●

\* 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
<b>NOVOTEX RED ARCY</b>	Pigment Red 48:2	15865:2	–	■	●
<b>NOVOTEX RED F4RK</b>	Pigment Red 170	12475	■	–	●
<b>NOVOTEX CARMINE FBB</b>	Pigment Red 146	12485	■	–	●

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

# 1.10

## AGROCER

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

<b>NAME</b>	<b>COLOUR INDEX</b>	<b>COLOUR INDEX NO.</b>	<b>AGRICULTURAL SECTOR</b>
<b>AGROCER YELLOW 001</b>	Pigment Yellow 1	11680	■
<b>AGROCER RED 112</b>	Pigment Red 112	12370	■
<b>AGROCER RED 482</b>	Pigment Red 48:2	15865:2	■
<b>AGROCER VIOLET 023</b>	Pigment Violet 23	51319	■
<b>AGROCER BLUE 153</b>	Pigment Blue 15:3	74160	■
<b>AGROCER GREEN 007</b>	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 P GRADES**

**2.5 COSMETIC PIGMENTS**

**2.6 NIP PRODUCTS**

**2.6.1 INK JET PIGMENTS**

**2.6.2 INK JET PIGMENT PREPARATIONS**

**2.6.3 INK JET DYES**

**2.6.4 TONER PIGMENTS**

**2.6.5 TONER PIGMENT PREPARATIONS**

**2.6.6 CHARGE CONTROL AGENTS**

**2.6.7 HDK - PYROGENIC SILICA**

## 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.**

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#### **LITERATURE**

Pattern card COA 1013 EN  
"Decorative paints, industrial paints, automotive paints"

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

**HANSA BRILLIANT YELLOW 2GX 70  
HANSA BRILLIANT YELLOW 2GX 70-S  
HANSA BRILLIANT YELLOW 2GX 72-S  
NOVOPERM YELLOW 5GD 71  
HOSTAPERM YELLOW H4G  
HOSTAPERM YELLOW H4G 70  
NOVOPERM YELLOW HR 70  
NOVOPERM YELLOW HR 72  
NOVOPERM YELLOW M2R 70  
NOVOPERM ORANGE H5G 70  
NOVOPERM ORANGE HL 70  
NOVOPERM ORANGE HL 71  
PERMANENT ORANGE RL 70  
HOSTAPERM RED E2B 70  
PERMANENT RED FGR 70  
NOVOPERM RED HF3S 70  
HOSTAPERM RED D3G 70-CN  
HOSTAPERM RED D3G 73  
HOSTAPERM RED D2G 71  
HOSTAPERM RED D2G 72  
NOVOPERM RED F2RK 70  
NOVOPERM RED F3RK 70  
GRAPHTOL RED F3RK 70**

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#### **LITERATURE**

Pattern card COA 1013 EN  
"Decorative paints, industrial paints, automotive paints"

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- 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 GRS 80  
PERMANENT YELLOW GRY-E82  
PERMANENT YELLOW GRX 83  
PERMANENT YELLOW GRX 86**

## 2.2

# TRANSPARENT GRADES FOR EFFECT PAINTS

Special grades with very high transparency.

**HOSTAPERM ORANGE GR**  
**HOSTAPERM SCARLET GO**  
**HOSTAPERM RED P2GL-WD**  
**HOSTAPERM RED E5B 02**  
**HOSTAPERM PINK E**  
**HOSTAPERM PINK EB TRANSP.**  
**HOSTAPERM RED VIOLET ER 02**  
**HOSTAPERM VIOLET BL 01**  
**HOSTAPERM VIOLET RL SPEC. 01**  
**HOSTAPERM BLUE BT-728-D**  
**HOSTAPERM BLUE BT-729-D**  
**HOSTAPERM BLUE BT-627-D**  
**HOSTAPERM BLUE A4R**  
**HOSTAPERM BLUE BT-617-D**  
**HOSTAPERM GREEN GNX 01**  
**HOSTAPERM BROWN HFR 01**

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#### LITERATURE

Pattern card COA 1013 EN  
"Decorative paints, industrial paints, automotive paints"

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## 2.3

# OPAQUE PIGMENTS FOR LEAD-FREE PIGMENTATIONS

**HOSTAPERM OXIDE YELLOW BV 01**  
**HOSTAPERM OXIDE YELLOW BV 02**  
**HANSA BRILLIANT YELLOW 2GX 70**  
**HANSA BRILLIANT YELLOW 2GX 70-S**  
**HANSA BRILLIANT YELLOW 2GX 72-S**  
**NOVOPERM YELLOW 5GD 71**  
**HOSTAPERM YELLOW H4G**  
**HOSTAPERM YELLOW H4G 70**  
**NOVOPERM YELLOW HR 70**  
**NOVOPERM YELLOW HR 72**  
**NOVOPERM YELLOW M2R 70**  
**NOVOPERM ORANGE H5G 70**  
**NOVOPERM ORANGE HL 70**  
**NOVOPERM ORANGE HL 71**

**PERMANENT ORANGE RL 70**  
**PERMANENT RED FGR 70**  
**NOVOPERM RED HF3S 70**  
**HOSTAPERM RED D3G 70-CN**  
**HOSTAPERM RED D3G 73**  
**HOSTAPERM RED D2G 71**  
**HOSTAPERM RED D2G 72**  
**NOVOPERM RED F2RK 70**  
**NOVOPERM RED F3RK 70**  
**HOSTAPERM RED E2B 70**

## 2.4

# 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-L5B 01**  
**HOSTAPERM VIOLET P-RL**



## 2.5 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".

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### LITERATURE

Brochure SPA 3002 EN  
"Living Colors – Solutions for Home & Personal Care Products"

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NAME	COLOUR INDEX	COLOUR INDEX NO.	COSMETIC LABEL NAME
<b>COSMETIC PINK RC 01</b>	Pigment Red 181 / Vat Red 1	73360	USA: D&C Red No. 30 EU: CI 73360 Japan: Aka 226
<b>HOSTAPERM BLUE A4R</b>	Pigment Blue 15:1	74160	EU: CI 74160
<b>PERMANENT CARMINE FB 01</b>	Pigment Red 5	12490	EU: CI 12490
<b>PV FAST BLUE BG</b>	Pigment Blue 15:3	74160	EU: CI 74160

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# 2.6 NIP PRODUCTS

## 2.6.1 INK JET PIGMENTS

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

## LITERATURE

Brochure NIP 5000 EN "Products for Non Impact Printing"

## INK JET PIGMENTS

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	MAIN APPLICATION		
			Aqueous	UV	Solvent
INK JET YELLOW H4G	P.Y. 151	Benzimidazolone	–	■	■
INK JET YELLOW H2G	P.Y. 120	Benzimidazolone	–	■	■
INK JET YELLOW 4G	P.Y. 155	Bisacetoacetarylide	■	■	■
INK JET YELLOW 4GC	P.Y. 155	Bisacetoacetarylide	■	■	■
INK JET YELLOW HG 01 VP 6252	P.Y. 180	Benzimidazolone	■	■	■
INK JET YELLOW 5GX-W	P.Y. 74	Monoazo	■	–	–
INK JET YELLOW 5GS	P.Y. 74	Monoazo	■	–	–
INK JET MAGENTA E5B 02	P.V. 19	Quinacridone	■	■	■
INK JET MAGENTA E7B VP 3958	–	Quinacridone	■	■	■
INK JET MAGENTA E 02	P.R. 122	Quinacridone	■	■	■
INK JET MAGENTA E-S VP 6057	P.R. 122	Quinacridone	■	■	■

## ADDITIONALLY RECOMMENDED PIGMENTS FOR INKJET APPLICATIONS

PV FAST YELLOW HG 01	P.Y. 180	Benzimidazolone	–	■	■
TONER YELLOW HG	P.Y. 180	Benzimidazolone	–	■	■
NOVOPERM YELLOW P-HG	P.Y. 180	Benzimidazolone	–	■	■
TONER YELLOW 5GXT	P.Y. 74	Monoazo	○	–	–
HANSA YELLOW 5GX 01	P.Y. 74	Monoazo	○	–	–
HANSA YELLOW 5GX 02	P.Y. 74	Monoazo	○	–	–
HANSA BRILLIANT YELLOW 5GX 03	P.Y. 74	Monoazo	○	–	–
NOVOPERM YELLOW P-M3R	P.Y. 139	Isoindoline	–	■	■
GRAPHTOL ORANGE RL	P.O. 34	Diazo	■	–	–
PV FAST ORANGE GRL	P.O. 43	Perione	■	■	○
PV FAST ORANGE H2GL	P.O. 64	Benzimidazolone	–	■	■
PV FAST RED D3G	P.R. 254	DPP	■	■	■
PERMANENT CARMINE FBB 02	P.R. 146	Monoazo	○	–	■
PERMANENT RUBINE F6B	P.R. 184	Monoazo	○	–	■
TONER MAGENTA E	P.R. 122	Quinacridone	○	○	○
PV FAST PINK E 01	P.R. 122	Quinacridone	–	■	■
HOSTAPERM VIOLET BL 01	P.V. 23	Dioxazine	■	■	■
PV FAST VIOLET RL	P.V. 23	Dioxazine	■	○	■
HOSTAPERM VIOLET P-RL	P.V. 23	Dioxazine	–	■	■
PV FAST BLUE BG-NIP	P.B. 15:3	Phthalocyanine	■	■	■
HOSTAPERM BLUE BT-617-D	P.B. 15:4	Phthalocyanine	■	■	■
HOSTAPERM GREEN GNX-C	P.G. 7	Phthalocyanine	■	■	■

■ Highly recommended ○ Optional suitable

## 2.6.2 INK JET PIGMENT PREPARATIONS

Hostajet PT grades are aqueous pigment dispersions based on polymeric dispersants and inkjet quality pigments. They can be used for all types of aqueous inkjet inks.

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	PIGMENT CONTENT	PARTICLE SIZE	LIGHT FASTNESS <sup>1</sup>	CHARACTERISTICS
			approx. %	(typical d <sub>50</sub> ) nm		
<b>HOSTAJET YELLOW 4G-PT</b>	P.Y. 155	Bisacetoacetarylide	20	100	6-7	High performance green shade yellow
<b>HOSTAJET RED D3G-PT VP 5121</b>	P.R. 254	DPP	20	170	6-7	High performance mid shade red
<b>HOSTAJET MAGENTA E5B-PT</b>	P.V. 19	Quinacridone	20	80	7-8	High performance red shade magenta
<b>HOSTAJET MAGENTA E-PT</b>	P.R. 122	Quinacridone	20	70	7-8	High performance standard magenta
<b>HOSTAJET CYAN BG-PT</b>	P.B. 15:3	Phthalocyanine	20	80	8	High performance standard cyan
<b>HOSTAJET BLACK O-PT</b>	P.BI. 7	Carbon Black	15	70	8	High performance standard black

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

# 2.6 NIP PRODUCTS

## 2.6.3 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 <sup>1</sup>	CHARACTERISTICS
<b>SAVINYL YELLOW RLS</b>	S.Y. 83:1	Azo 1:2 Cr-complex	7-8	Standard yellow with good solubility in ketones
<b>SAVINYL RED 3BLS</b>	S.R. 91	Azo 1:2 Co-complex	6	Magenta with good solubility in ketones
<b>SAVINYL PINK 6BLS</b>	S.R. 127	Azo 1:2 Cr-complex	4	Standard magenta with good solubility in appropriate ketones
<b>SAVINYL BLUE GLS</b>	S.B. 44	Phthalocyanine	6	Standard cyan with good solubility in alcohols and ketones
<b>SAVINYL BLACK RLSN 01</b>	S.Bl. 27	Azo 1:2 Cr-complex	7	Standard black with good solubility in ketones

<sup>1</sup> 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/m<sup>2</sup> on aluminum foil.

### DUASYN DYE FOR INK JET INKS

PRODUCT	COLOUR INDEX	CHEMICAL CLASS	LIGHT FASTNESS <sup>1</sup>	CHARACTERISTICS
<b>DUASYN BLACK A-RG</b>	S.Bl. 27	Azo 1:2 Cr-complex	7	Standard black with good solubility in MEK

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

### 2.6.3 INK JET DYES - WATER BASED

Duasyne-SF/Duasynejet-SF grades are specially designed for water based ink jet inks.

The following properties are typical for all highly salt minimized Duasyne/Duasynejet-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 <sup>1</sup>	CHARACTERISTICS
			approx. %		
<b>DUASYN ACID YELLOW XX-SF LIQ.</b>	A. Y. 23	Azo	8	4-5	Standard red shade yellow
<b>DUASYN YELLOW 3GF-SF LIQ.</b>	D. Y. 132	Azo	8	4-5	High performing red shade yellow
<b>DUASYN MAGENTA CR-SF LIQ.</b>	—	Azo	15	4	Highly brilliant shade magenta reactive dye
<b>DUASYN BRILLIANT RED F3B-SF LIQ.</b>	R. R. 180	Azo	15	4	Standard magenta, reactive dye
<b>DUASYNJET CYAN FRL-SF LIQ.</b>	D. B. 199	Phthalocyanine	10	7	Standard green shade cyan
<b>DUASYN ACID BLUE AE-SF 30 LIQ.</b>	A. B. 9	Triarylmethane	30	2-3	Standard cyan for shading

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

# 2.6 NIP PRODUCTS

## 2.6.4 TONER PIGMENTS

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

Additional recommended pigments for toner applications (for shading, spot colors, etc.).

### TONER PIGMENTS FOR PROCESS COLORS

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

### ADDITIONALLY RECOMMENDED PIGMENTS\* FOR TONER APPLICATIONS

PV FAST YELLOW H9G	Yellow	P. Y. 214	Disazo	7
HOSTAPERM YELLOW H6G	Yellow	P. Y. 175	Benzimidazolone	7
INK JET YELLOW H4G	Yellow	P. Y. 151	Benzimidazolone	7
INK JET YELLOW HG 01 VP 6252	Yellow	P. Y. 180	Benzimidazolone	7
PV FAST YELLOW HG 01	Yellow	P. Y. 180	Benzimidazolone	7
NOVOPERM YELLOW P-HG	Yellow	P. Y. 180	Benzimidazolone	7
NOVOPERM YELLOW FGL	Yellow	P. Y. 97	Monoazo	7
GRAPHTOL YELLOW GG	Yellow	P. Y. 17	Diarylide	4
INK JET YELLOW 5GX-W	Yellow	P. Y. 74	Monoazo	6
INK JET YELLOW 5GS	Yellow	P. Y. 74	Monoazo	6
HANSA YELLOW 5GX 01	Yellow	P. Y. 74	Monoazo	6
NOVOPERM YELLOW P-M3R	Yellow	P. Y. 139	Isoindoline	8
GRAPHTOL ORANGE RL	Orange	P. O. 34	Disazo	6-7
PV FAST RED D3G	Red	P. R. 254	DPP	8
GRAPHTOL CARMINE HF4C	Red	P. R. 185	Benzimidazolone	6-7
PERMANENT CARMINE FBB 02	Blue-shade red	P. R. 146	Monoazo	6
PERMANENT RUBINE F6B	Blue-shade red	P. R. 184	Monoazo	5
INK JET MAGENTA E5B 02	Magenta	P. V. 19	Quinacridones	7
PV FAST PINK E 01	Magenta	P. R. 122	Quinacridones	7-8
HOSTAPERM VIOLET P-RL	Violet	P. V. 23	Dioxazine	8
HOSTAPERM BLUE B2G 03	Cyan	P. B. 15:3	Phthalocyanine	8
PV FAST BLUE BG-NIP	Cyan	P. B. 15:3	Phthalocyanine	8
HOSTAPERM GREEN GNX-C	Green	P. G. 7	Phthalocyanine	8

\* Please note that these products are standardized in different applications like paints, etc.  
1 = The light fastness was determined in a draw down in a typical polyester toner resin.

### 2.6.5 TONER PIGMENT PREPARATIONS

Non-dusting, easy-to-disperse concentrates available as tailor-made products (Hostacopy). Liquid dispersions are available on request.

### 2.6.6 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
<b>COPY CHARGE N4P</b>	Negative	Colorless	Modified inorganic polymeric compound
<b>COPY CHARGE N5P-01</b>	Negative	Colorless	Modified inorganic polymeric compound

### 2.6.7 HDK - PYROGENIC SILICA

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





# 3 PIGMENT PREPARATIONS

**3.1 COLANYL 100**

**3.2 COLANYL 500**

**3.3 HOSTATINT 500**

**3.4 HOSTATINT A 100 / 100-ST**

**3.5 HOSTATINT UV 100**

**3.6 HOSTAFINE**

**3.7 HOSTANOL HW 30**

**3.8 FLEXONYL / FLEXONYL SP**

**3.9 FLEXONYL A**

**3.10 FLEXONYL WF**

**3.11 LICOSPERSE**

**3.12 COSMENYL 100**

**3.13 COSMENYL GRAN.**

**3.14 VISCOFIL**

**3.15 AGROCER DISP.**

**3.16 HOSTAPRINT**

**3.17 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 531, 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.

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### LITERATURE

Pattern card COA 1020 EN "Colanyl 100 – Pigment preparations"

Flyer COA 1021 EN "Colanyl 100 – Pigment preparations"

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NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLID CON-	WATER	GLYCOL	DENSITY
			%	TENT	%	%	%
<b>COLANYL YELLOW 10G 132</b>	Pigment Yellow 3	11710	35	51	29	20	1.17
<b>COLANYL YELLOW 5GX 131</b>	Pigment Yellow 74	11741	46	54	26	20	1.14
<b>COLANYL YELLOW FGL 133</b>	Pigment Yellow 97	11767	38	52	30	18	1.12
<b>COLANYL YELLOW H3G 131</b>	Pigment Yellow 154	11781	30	40	40	20	1.14
<b>COLANYL YELLOW 2GXD 130</b>	Pigment Yellow 74	11741	48	57	18	25	1.19
<b>COLANYL YELLOW G 132</b>	Pigment Yellow 1	11680	50	56	24	20	1.17
<b>COLANYL YELLOW HR 132</b>	Pigment Yellow 83	21108	35	55	30	15	1.14
<b>COLANYL YELLOW HRD 131</b>	Pigment Yellow 83	21108	50	58	27	15	1.19
<b>COLANYL RED GG 131</b>	Pigment Orange 5	12075	45	56	24	20	1.20
<b>COLANYL RED FRLL 131</b>	Pigment Red 9	12460	48	54	26	20	1.16
<b>COLANYL SCARLET GO 533</b>	Pigment Red 168	59300	35	51	29	20	1.22
<b>COLANYL RED FGRG 130</b>	Pigment Red 112	12370	47	53	21	26	1.18
<b>COLANYL RED FGR 131</b>	Pigment Red 112	12370	45	53	28	19	1.18
<b>COLANYL CARMINE FB 130</b>	Pigment Red 5	12490	40	51	29	20	1.14
<b>COLANYL RED E3B 130</b>	Pigment Violet 19	73900	32	47	28	25	1.13
<b>COLANYL PINK E 130</b>	Pigment Red 122	73915	20	36	44	20	1.12
<b>COLANYL VIOLET RL 132</b>	Pigment Violet 23	51319	30	45	37	18	1.14
<b>COLANYL BLUE A2R 131</b>	Pigment Blue 15:1	74160	40	51	31	18	1.21
<b>COLANYL BLUE B2G 131</b>	Pigment Blue 15:3	74160	47	54	26	20	1.23
<b>COLANYL GREEN GG 131</b>	Pigment Green 7	74260	50	59	26	15	1.34
<b>COLANYL BLACK PR 130</b>	Pigment Black 7	77266	30	38	37	25	1.18
<b>COLANYL BLACK N 131</b>	Pigment Black 7	77266	42	49	31	20	1.27
<b>COLANYL OXIDE YELLOW BV 100</b>	Pigment Yellow 184	771740	65	72	18	10	2.18
<b>COLANYL OXIDE YELLOW CR 130</b>	Pigment Brown 24	77310	66	80	5	15	2.18
<b>COLANYL OXIDE YELLOW R 132</b>	Pigment Yellow 42	77492	66	73	9	18	1.98
<b>COLANYL OXIDE RED G 130</b>	Pigment Red 101	77491	65	70	16	14	2.17
<b>COLANYL OXIDE RED B 131</b>	Pigment Red 101	77491	72	77	8	14	2.34
<b>COLANYL OXIDE BLUE COR 100</b>	Pigment Blue 28	77346	60	67	15	18	1.95
<b>COLANYL OXIDE GREEN G 131</b>	Pigment Green 17	77288	75	80	10	10	2.56
<b>COLANYL OXIDE BLACK B 130</b>	Pigment Black 11	77499	50	62	18	20	1.90
<b>COLANYL WHITE R 130</b>	Pigment White 6	77891	70	77	4	19	2.18

## 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 <sup>[1]</sup>.

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 531, 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.

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#### LITERATURE

Pattern card COA 1011 EN  
"Colanyl 500, Hostatint 500 - For decorative paints and coatings"

Flyer COA 1005 EN  
"Colanyl 500, Hostatint 500 - For decorative paints and coatings"

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[1] As defined in EU directive 2004/42/EC, annex II, phase II. Colanyl Blue B2G 530 and Colanyl Violet RL 531 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 <sup>3</sup>
<b>COLANYL YELLOW 56X 530</b>	Pigment Yellow 74	11741	40	58	42	1.14
<b>COLANYL YELLOW FGL 531</b>	Pigment Yellow 97	11767	38	65	35	1.15
<b>COLANYL YELLOW H3G 530</b>	Pigment Yellow 154	11781	30	47	53	1.13
<b>COLANYL YELLOW 26XD 530</b>	Pigment Yellow 74	11741	41	61	39	1.19
<b>COLANYL YELLOW G 530</b>	Pigment Yellow 1	11680	45	64	36	1.17
<b>COLANYL YELLOW HRD 530</b>	Pigment Yellow 83	21108	50	69	31	1.18
<b>COLANYL ORANGE H5GD 500</b>	Pigment Orange 62	11775	30	63	37	1.17
<b>COLANYL RED GG 531</b>	Pigment Orange 5	12075	45	67	33	1.24
<b>COLANYL SCARLET GO 533</b>	Pigment Red 168	59300	36	62	38	1.24
<b>COLANYL RED D3GD 532</b>	Pigment Red 254	56110	50	66	34	1.24
<b>COLANYL RED HF3S 530</b>	Pigment Red 188	12467	40	60	40	1.16
<b>COLANYL RED FGRD 530</b>	Pigment Red 112	12370	45	61	39	1.17
<b>COLANYL RED FGR 531</b>	Pigment Red 112	12370	47	70	30	1.20
<b>COLANYL RED E3B 531</b>	Pigment Violet 19	73900	30	59	41	1.14
<b>COLANYL PINK E-WD 531</b>	Pigment Red 122	73915	32	57	43	1.14
<b>COLANYL PINK E 532</b>	Pigment Red 122	73915	20	44	56	1.08
<b>COLANYL VIOLET RL 532</b>	Pigment Violet 23	51319	30	63	37	1.12
<b>COLANYL BLUE A2R 531</b>	Pigment Blue 15:1	74160	40	62	38	1.20
<b>COLANYL BLUE B2G 530</b>	Pigment Blue 15:3	74160	45	61	39	1.23
<b>COLANYL GREEN GG 531</b>	Pigment Green 7	74260	50	71	29	1.34
<b>COLANYL BLACK N 530</b>	Pigment Black 7	77266	43	63	37	1.28
<b>COLANYL BLACK N 511</b>	Pigment Black 7	77266	40	61	39	1.25
<b>COLANYL OXIDE YELLOW BV 531</b>	Pigment Yellow 184	771740	65	80	20	2.22
<b>COLANYL OXIDE YELLOW R 532</b>	Pigment Yellow 42	77492	64	78	22	2.00
<b>COLANYL OXIDE RED G 531</b>	Pigment Red 101	77491	65	79	21	2.16
<b>COLANYL OXIDE RED B 531</b>	Pigment Red 101	77491	70	83	17	2.35
<b>COLANYL OXIDE BLUE COR 531</b>	Pigment Blue 28	77346	62	79	21	1.96
<b>COLANYL OXIDE GREEN G 531</b>	Pigment Green 17	77288	75	87	13	2.59
<b>COLANYL OXIDE BLACK B 533</b>	Pigment Black 11	77499	53	71	29	1.80
<b>COLANYL OXIDE BLACK IR 531</b>	Pigment Green 17	77288	70	84	16	2.38
<b>COLANYL WHITE R 530</b>	Pigment White 6	77891	65	82	18	2.04
<b>COLANYL EXTENDER MS 531</b>	—	—	60	78	22	1.68

## 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 532 or Hostatint Extender CC 532, 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.

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#### LITERATURE

Pattern card COA 1011 EN  
"Colanyl 500, Hostatint 500 - For decorative paints and coatings"

Flyer COA 1005 EN  
"Colanyl 500, Hostatint 500 - For decorative paints and coatings"

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[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 <sup>3</sup>
<b>HOSTATINT YELLOW 12G 531</b>	Pigment Yellow 3	11710	40	63	37	1.18
<b>HOSTATINT YELLOW 4GX 531</b>	Pigment Yellow 73	11738	38	63	37	1.16
<b>HOSTATINT YELLOW FGL 532</b>	Pigment Yellow 97	11767	40	61	29	1.14
<b>HOSTATINT YELLOW 2GXD 531</b>	Pigment Yellow 74	11741	40	65	35	1.15
<b>HOSTATINT YELLOW HR 533</b>	Pigment Yellow 83	21108	15	57	43	1.09
<b>HOSTATINT ORANGE HLD 533</b>	Pigment Orange 36	11780	20	60	40	1.13
<b>HOSTATINT SCARLET GO 531</b>	Pigment Red 168	59300	35	61	39	1.24
<b>HOSTATINT RED FGR 531</b>	Pigment Red 112	12370	21	51	49	1.13
<b>HOSTATINT RED D3GD 532</b>	Pigment Red 254	56110	30	61	39	1.15
<b>HOSTATINT PINK E 532</b>	Pigment Red 122	73915	20	44	56	1.10
<b>HOSTATINT VIOLET RL 533</b>	Pigment Violet 23	51319	15	59	41	1.11
<b>HOSTATINT BLUE B2G 531</b>	Pigment Blue 15:3	74160	30	57	43	1.14
<b>HOSTATINT GREEN GG 531</b>	Pigment Green 7	74260	30	61	39	1.18
<b>HOSTATINT BLACK GR 532</b>	Pigment Black 7	77266	20	54	46	1.13
<b>HOSTATINT OXIDE YELLOW BV 531</b>	Pigment Yellow 184	771740	65	85	15	2.07
<b>HOSTATINT OXIDE YELLOW R 532</b>	Pigment Yellow 42	77492	60	81	19	1.87
<b>HOSTATINT OXIDE ORANGE Z 530</b>	Pigment Yellow 216	—	60	82	18	2.27
<b>HOSTATINT OXIDE RED B 532</b>	Pigment Red 101	77491	68	85	15	2.24
<b>HOSTATINT UMBER KT 532</b>	Mixture	—	65	96	4	2.03
<b>HOSTATINT OXIDE BLUE COR 531</b>	Pigment Blue 28	77346	65	85	15	2.05
<b>HOSTATINT OXIDE GREEN CO 532</b>	Pigment Green 50	77377	65	89	11	2.06
<b>HOSTATINT OXIDE GREEN G 532</b>	Pigment Green 17	77288	60	79	21	2.16
<b>HOSTATINT OXIDE BLACK B 532</b>	Pigment Black 26	77537	70	92	8	2.34
<b>HOSTATINT WHITE R 531</b>	Pigment White 6	77891	70	89	11	2.17
<b>HOSTATINT EXTENDER MS 532</b>	—	—	55	78	22	1.59
<b>HOSTATINT EXTENDER CC 532</b>	—	—	30	61	39	1.28

## 3.4

# HOSTATINT A 100

# HOSTATINT A 100-ST

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.

Hostatint A 100-ST grades are super-transparent organic pigment preparations to enhance metallic and mineral effect shades getting more popular in industrial applications. Hostatint A 100-ST have a color intensity similar to dyes, while having very high light and weather fastness with no migration and bleeding.

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.

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#### LITERATURE

Pattern card COA 1008 EN "Hostatint A 100 - Pigment preparations"

Flyer COA 1004 EN "Hostatint A 100 - Pigment preparations"

Flyer COA 1007 EN "Hostatint A 100-ST"

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NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT CONTENT	SOLID CONTENT	SOLVENT CONTENT	DENSITY
			%	%	%	g/cm <sup>3</sup>
<b>HOSTATINT YELLOW A-F2G 100</b>	Pigment Yellow 194	11785	36	59	41	1.19
<b>HOSTATINT YELLOW A-H3G 100</b>	Pigment Yellow 154	11781	42	65	35	1.23
<b>HOSTATINT YELLOW A-HRD 100</b>	Pigment Yellow 83	21108	28	52	48	1.16
<b>HOSTATINT ORANGE A-HLD 100</b>	Pigment Orange 36	11780	43	60	40	1.25
<b>HOSTATINT RED A-D3GD 130</b>	Pigment Red 254	56110	35	63	37	1.22
<b>HOSTATINT PINK A-E 130</b>	Pigment Red 122	73915	19	45	55	1.13
<b>HOSTATINT RED VIOLET A-ER 130</b>	Pigment Violet 19	73900	19	49	51	1.13
<b>HOSTATINT VIOLET A-RL 100</b>	Pigment Violet 23	51319	12	40	60	1.12
<b>HOSTATINT BLUE A-BG 100</b>	Pigment Blue 15:3	74160	24	60	40	1.17
<b>HOSTATINT GREEN A-GNX 130</b>	Pigment Green 7	74260	24	51	49	1.22
<b>HOSTATINT BLACK A-N 100</b>	Pigment Black 7	77266	21	55	45	1.17
<b>HOSTATINT OXIDE YELLOW A-BV 100</b>	Pigment Yellow 184	771740	64	80	20	2.27
<b>HOSTATINT OXIDE YELLOW A-CR 100</b>	Pigment Brown 24	77310	64	82	18	2.11
<b>HOSTATINT OXIDE YELLOW A-R 100</b>	Pigment Yellow 42	77492	50	68	32	1.68
<b>HOSTATINT OXIDE RED A-B 100</b>	Pigment Red 101	77491	62	78	22	2.06
<b>HOSTATINT TRANSOXIDE YELLOW A-2R 100</b>	Pigment Yellow 42	77492	36	67	33	1.48
<b>HOSTATINT TRANSOXIDE RED A-G 100</b>	Pigment Red 101	77491	44	68	32	1.59
<b>HOSTATINT WHITE A-R 100</b>	Pigment White 6	77891	59	79	21	1.90
<b>HOSTATINT YELLOW A-N4G 100-ST</b>	Pigment Yellow 150	12764	15	38	62	1.16
<b>HOSTATINT RED A-P2Y 100-ST</b>	Pigment Red 179	71130	15	30	70	1.15
<b>HOSTATINT PINK A-EB 100-ST</b>	Pigment Red 122	73915	12	27	73	1.13
<b>HOSTATINT BLUE A-BTR 100-ST</b>	Pigment Blue 15:1	74160	12	41	59	1.12
<b>HOSTATINT BLUE A-BTG 100-ST</b>	Pigment Blue 15:4	74160	15	36	64	1.15
<b>HOSTATINT GREEN A-GBX 100-ST</b>	Pigment Green 7	74260	12	30	70	1.15
<b>HOSTATINT BLACK A-NB 100-ST</b>	Pigment Black 7	77266	25	45	55	1.20
<b>HOSTATINT BLACK A-NY 100-ST</b>	Pigment Black 7	77266	15	30	70	1.16
<b>HOSTATINT BLACK A-MIR 100-ST</b>	Mixture	n.a.	15	30	70	1.16

# 3.5 HOSTATINT™ UV 100

Hostatint UV is a range of pigment preparations, which do not contain water or solvents. They are designed to work best in 100% UV systems, but are also suitable for solvent-borne UV systems. Both, the binder and the diluent (HDDA) contained in the preparations, crosslink into the coating film under UV curing conditions.

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#### LITERATURE

Flyer PI 2025 E

"Colorants for radiation curing – Hostatint UV pigment preparations"

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NAME	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	BINDER
			%	%
<b>HOSTATINT UV YELLOW H3G</b>	Yellow 154	11781	42	24
<b>HOSTATINT UV RED D3GD</b>	Red 254	56110	35	29
<b>HOSTATINT UV BLUE BG</b>	Blue 15:3	74160	24	25
<b>HOSTATINT UV WHITE R</b>	White 6	77891	62	19
<b>HOSTATINT UV BLACK N 30</b>	Black 7	77266	21	40
<b>HOSTATINT UV OXIDE YELLOW R</b>	Yellow 42	77492	43	20
<b>HOSTATINT UV OXIDE RED B</b>	Red 101	77491	50	25

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# 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 COA 1026 EN "Hostafine – Pigment preparations"

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	GLYCOL	DENSITY
			%	%	g/cm <sup>3</sup>
<b>HOSTAFINE YELLOW GR 31</b>	Pigment Yellow 13	21100	40	10	1.13
<b>HOSTAFINE YELLOW HR 33</b>	Pigment Yellow 83	21108	32	10	1.13
<b>HOSTAFINE RED HF3S 30</b>	Pigment Red 188	12467	40	10	1.14
<b>HOSTAFINE RED FGR 30</b>	Pigment Red 112	12370	45	10	1.15
<b>HOSTAFINE RED P2GL 30</b>	Pigment Red 179	71130	25	10	1.12
<b>HOSTAFINE RED F5RK 30</b>	Pigment Red 170	12475	35	10	1.11
<b>HOSTAFINE RUBINE F6B 31</b>	Pigment Red 184	12487	40	10	1.11
<b>HOSTAFINE MAGENTA E 30</b>	Pigment Red 122	73915	20	10	1.09
<b>HOSTAFINE VIOLET RL 31</b>	Pigment Violet 23	51319	30	10	1.12
<b>HOSTAFINE BLUE B2G 30</b>	Pigment Blue 15:3	74160	40	10	1.18
<b>HOSTAFINE GREEN GN 30</b>	Pigment Green 7	74260	40	10	1.28
<b>HOSTAFINE BLACK T 31</b>	Pigment Black 7	77266	30	10	1.18
<b>HOSTAFINE BLACK TS 30</b>	Pigment Black 7	77266	33	–	1.22
<b>HOSTAFINE TRANSOXIDE YELLOW R 33</b> <sup>[1]</sup>	Pigment Yellow 42	77492	35	–	1.37
<b>HOSTAFINE TRANSOXIDE RED B 33</b> <sup>[1]</sup>	Pigment Red 101	77491	35	–	1.37

[1] Hostafine Transoxide Yellow R 33 and Hostafine Transoxide Red B 33 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

## HOSTANOL HW 30

Hostanol 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.

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### LITERATURE

Pattern card COA 1012 EN "Hostanol HW 30 – Pigment preparations"

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NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	LIGHT FASTNESS	PARTICLE SIZE DISTRIBUTION
			%		d <sub>50</sub> (nm)
<b>HOSTANOL HW 30 YELLOW HR</b>	Yellow 83	21108	50	6-7	≤ 75
<b>HOSTANOL HW 30 RED F5RK</b>	Red 170	12475	50	6	< 250
<b>HOSTANOL HW 30 BLUE B2G</b>	Blue 15:3	74160	50	8	< 100
<b>HOSTANOL HW 30 BROWN HFR</b>	Brown 25	12510	50	8	≤ 75
<b>HOSTANOL HW 30 BLACK R</b>	Black 7	77266	40	8	≤ 75
<b>HOSTANOL HW 30 WHITE T</b>	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<sup>(1)</sup> 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	ETHYLENE GLYCOL
			%	%	%	%	%
<b>FLEXONYL YELLOW DGR-LA</b>	Pigment Yellow 126	21101	50	24	–	–	20
<b>FLEXONYL ORANGE G</b>	Pigment Orange 13	21110	45	27	10	–	–
<b>FLEXONYL RED SP-FGR</b>	Pigment Red 112	12370	48	28	20	–	–
<b>FLEXONYL CARMINE SP-FBB</b>	Pigment Red 146	12485	40	30	20	–	–
<b>FLEXONYL BLACK PR 100</b>	Pigment Black 7	77266	30	37	–	25	–
<b>FLEXONYL WHITE RL 130</b>	Pigment White 6	77891	65	11	–	18	–
<b>FLEXONYL WHITE RS 32</b>	Pigment White 6	77891	65	30	–	–	–

<sup>(1)</sup> 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
			%	%	%	%	%
<b>FLEXONYL BLACK A-CB</b>	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
			%	%	%
<b>FLEXONYL YELLOW WF 074</b>	Pigment Yellow 74	11741	45	55	45
<b>FLEXONYL ORANGE WF 131</b>	Pigment Orange 13	21110	38	50	50
<b>FLEXONYL BLUE WF 153</b>	Pigment Blue 15:3	74160	37	53	47
<b>FLEXONYL BLACK WF 007</b>	Pigment Black 7	77266	36	48	52

# 3.11 LICOSPERSER

Licosperse are mineral oil-based pigment preparations easily incorporated in oil, mineral low aromatic solvents or heated wax. They are recommended for the sustainable coloration of oil- or wax-based products, e.g. shoe care and floor polishes, fertilizers and herbicides, as well as for the coloration of interior, oil- and solvent based wood stains and coatings applications, exhibiting excellent compatibility.

The Colour Index data relate to the basic pigments.

## LITERATURE

Brochure PI 4022 E  
"Licosperse – Pigment Preparations"

Brochure SPA 3015 EN  
"Shiny Colors – First Impression Counts"

NAME	COLOUR INDEX	COLOUR INDEX NO.	SOLVENT BASED APPLICATION					
			Shoe polish	Floor polish	Fertilisers	Herbicides	Wood stains	Wood varnishes
<b>LICOSPERSER YELLOW GR 30</b>	Pigment Yellow 13	21100			✓	✓	✓	✓
<b>LICOSPERSER ORANGE 30</b>	Mixture	–		✓				
<b>LICOSPERSER LIGHT BROWN L 30</b>	Pigment Yellow 42	77492	✓	✓			✓	✓
<b>LICOSPERSER RED MO1 30</b>	Mixture	–			✓	✓	✓	✓
<b>LICOSPERSER OXIDE RED 30</b>	Pigment Red 101	77491	✓	✓			✓	✓
<b>LICOSPERSER PINK 30</b>	Mixture	–		✓				
<b>LICOSPERSER VIOLET 30</b>	Mixture	–		✓				
<b>LICOSPERSER BLUE AN 30</b>	Pigment Blue 15	74160	✓		✓	✓	✓	✓
<b>LICOSPERSER GREEN G 30</b>	Pigment Green 7	74260			✓	✓	✓	✓
<b>LICOSPERSER OXIDE GREEN 30</b>	Mixture	–		✓			✓	✓
<b>LICOSPERSER BROWN M3 30</b>	Mixture	–	✓	✓			✓	✓
<b>LICOSPERSER BROWN IN 30</b>	Mixture	–	✓	✓			✓	✓
<b>LICOSPERSER BLACK PVP 30</b>	Pigment Black 7	77266	✓	✓			✓	✓

# 3.12

## COSMENYL 100

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 SPA 3002 EN  
 "Living Colors – Solutions for Home & Personal Care Products"

NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	SOLIDS CONTENT	WATER	GLYCERIN	EU COSMETICS APPLICATION FIELD
			%	%	%	%	%
<b>COSMENYL YELLOW 100</b>	Pigment Yellow 1	11680	42	48	27	25	3
<b>COSMENYL CARMINE OC 100</b>	Pigment Red 5	12490	40	49	31	20	1
<b>COSMENYL VIOLET 100</b>	Pigment Violet 23	51319	30	41	29	30	4
<b>COSMENYL BLUE OC 100</b>	Pigment Blue 15:1	74160	38	46	34	20	1
<b>COSMENYL GREEN OC 100</b>	Pigment Green 7	74260	48	57	18	25	2
<b>COSMENYL BLACK 100</b>	Pigment Black 7	77266	19	30	40	30	1
<b>COSMENYL OXIDE YELLOW 100</b>	Pigment Yellow 42	77492	58	65.5	18.5	16	1



# 3.13

## 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
- 2 = Not to be used in eye products
- 3 = Not to be used in products applied on mucous membranes
- 4 = Rinse-off products

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#### LITERATURE

Brochure SPA 3002 EN  
 "Living Colors – Solutions for Home & Personal Care Products"

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NAME	COLOUR INDEX	COLOUR INDEX NO.	PIGMENT	EU COSMETICS APPLICATION FIELD
			%	%
<b>COSMENYL YELLOW GLS GRAN.</b>	Pigment Yellow 1	11680	38	3
<b>COSMENYL RED BLS GRAN.</b>	Pigment Red 5	12490	36	1
<b>COSMENYL BLUE BLS 30 GRAN.</b>	Pigment Blue 15:1	74160	38	1
<b>COSMENYL GREEN 2GLS GRAN.</b>	Pigment Green 7	74260	40	2

# 3.14 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
			%	%	%	%
<b>VISCOFIL YELLOW A2GN</b>	Pigment Yellow 14	21095	23	30	60	10
<b>VISCOFIL YELLOW AGX</b>	Pigment Yellow 74	11741	24	29	61	10
<b>VISCOFIL YELLOW 2GLL</b>	Pigment Yellow 155	200310	20	28	72	–
<b>VISCOFIL YELLOW GGVD</b>	Pigment Yellow 17	21105	25	38	52	10
<b>VISCOFIL GOLDEN RVD</b>	Pigment Yellow 13	21100	32	45	45	10
<b>VISCOFIL GOLDEN YELLOW RRVDN</b>	Mixture	–	35	43	47	10
<b>VISCOFIL ORANGE GG 30</b>	Pigment Orange 13	21110	20	27	73	–
<b>VISCOFIL ORANGE GRVD</b>	Pigment Orange 4	12459	32	45	45	10
<b>VISCOFIL ORANGE RL 30</b>	Pigment Orange 34	21115	45	59	41	–
<b>VISCOFIL RED AGN</b>	Pigment Red 2	12310	33	38	52	10
<b>VISCOFIL RED GVD</b>	Pigment Red 2	12310	32	48	42	10
<b>VISCOFIL RED BL</b>	Pigment Red 5	12490	25	37	58	5
<b>VISCOFIL RED F5RK 30</b>	Pigment Red 170	12475	30	35	65	–
<b>VISCOFIL RUBINE BFVD</b>	Pigment Red 32	12320	30	44	46	10
<b>VISCOFIL BORDEAUX BB 30</b>	Pigment Violet 32	12517	20	29	71	–
<b>VISCOFIL VIOLET BLN</b>	Pigment Violet 23	51319	30	41	59	–
<b>VISCOFIL BLUE ARN</b>	Pigment Blue 15	74160	33	41	49	10
<b>VISCOFIL BLUE FRVD</b>	Pigment Blue 15	74160	33	45	45	10
<b>VISCOFIL BLUE B2G 30</b>	Pigment Blue 15:3	74160	33	45	45	10
<b>VISCOFIL GREEN A-GNS</b>	Pigment Green 7	74260	40	52	38	10
<b>VISCOFIL GREEN GVDN 20</b>	Mixture	–	25	33	57	10
<b>VISCOFIL BROWN HFR 30</b>	Pigment Brown 25	12510	20	25	75	–
<b>VISCOFIL BLACK 2BLN</b>	Pigment Black 7	77266	26	30	70	–
<b>VISCOFIL BLACK VBC</b>	Pigment Black 7	77266	27	30	60	10
<b>VISCOFIL WHITE A-RCL 30</b>	Pigment White 6	77891	63	75	15	10

## 3.15

# 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	POLYPROPYLENE GLYCOL	GLYCERINE
			%	%	%	%
<b>AGROCER YELLOW 001 DISP.</b>	Pigment Yellow 1	11680	46	24	–	25
<b>AGROCER RED 112 DISP.</b>	Pigment Red 112	12370	40	42	–	10
<b>AGROCER RED 482 DISP.</b>	Pigment Red 48:2	15865:2	35	53	8	–
<b>AGROCER VIOLET 023 DISP.</b>	Pigment Violet 23	51319	30	33	–	30
<b>AGROCER BLUE 153 DISP.</b>	Pigment Blue 15:3	74160	33	35	10	–
<b>AGROCER GREEN 007 DISP.</b>	Pigment Green 7	74260	40	38	10	–

# 3.16 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.

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## LITERATURE

Pattern card PLA 2006 EN DE  
"Hostaprint pigment preparations for the PVC industry"

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NAME	COLOUR INDEX	COLOUR INDEX NO.
<b>HOSTAPRINT YELLOW GG</b>	Pigment Yellow 17	21105
<b>HOSTAPRINT YELLOW HG</b>	Pigment Yellow 180	21290
<b>HOSTAPRINT YELLOW HR-N</b>	Pigment Yellow 83	21108
<b>HOSTAPRINT YELLOW HGR</b>	Pigment Yellow 191	18795
<b>HOSTAPRINT YELLOW H2R</b>	Pigment Yellow 139	56298
<b>HOSTAPRINT ORANGE H4GL</b>	Pigment Orange 72	211095
<b>HOSTAPRINT RED HFG</b>	Pigment Orange 38	12367
<b>HOSTAPRINT RED D3G</b>	Pigment Red 254	56110
<b>HOSTAPRINT RED HF2B</b>	Pigment Red 208	12514
<b>HOSTAPRINT CARMINE HF4C</b>	Pigment Red 185	12516
<b>HOSTAPRINT PINK E</b>	Pigment Red 122	73915
<b>HOSTAPRINT VIOLET RL</b>	Pigment Violet 23	51319
<b>HOSTAPRINT BLUE A2R</b>	Pigment Blue 15:1	74160
<b>HOSTAPRINT BLUE B2G</b>	Pigment Blue 15:3	74160
<b>HOSTAPRINT GREEN GG</b>	Pigment Green 7	74260
<b>HOSTAPRINT BROWN RL</b>	Pigment Braun 41	–
<b>HOSTAPRINT BROWN HFR</b>	Pigment Brown 25	12510
<b>HOSTAPRINT BLACK L</b>	Pigment Black 7	77266

# 3.17

## 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.

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### LITERATURE

Pattern card PLA 2005 EN DE  
"Hostasin pigment preparations for the rubber industry"

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NAME	COLOUR INDEX	COLOUR INDEX NO.
<b>HOSTASIN YELLOW GR 30</b>	Pigment Yellow 13	21100
<b>HOSTASIN YELLOW HR 30</b>	Pigment Yellow 83	21108
<b>HOSTASIN ORANGE G 30</b>	Pigment Orange 13	21110
<b>HOSTASIN RED B 30</b>	Pigment Red 38	21120
<b>HOSTASIN RED HF2B 30</b>	Pigment Red 208	12514
<b>HOSTASIN BLUE A2R 30</b>	Pigment Blue 15:1	74160
<b>HOSTASIN GREEN GG 30</b>	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 LIQUID / DUASYNJET SF LIQUID**
- 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.

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#### LITERATURE

Pattern card PLA 2004 EN DE  
 "Solvaperm, Hostasol, Polysynthren, Special Colors"  
 Flyer DP 6247 E  
 "Polymer-soluble dyes for Plastics applications"

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NAME	COLOUR INDEX	COLOUR INDEX NO.	POLYMER							
			PS	SAN	ABS	PC	PET PBT	PMMA	PA	PVC-U
<b>HOSTASOL YELLOW 3G</b>	Solvent Yellow 98	56238	●	●	●	●	●	●	○	●
<b>HOSTASOL RED 6G</b>	Solvent Orange 63	68550	●	●	●	●	●	●	○	●
<b>HOSTASOL RED 5B</b>	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 PLA 2004 EN DE  
 "Solvaperm, Hostasol, Polysynthren, Special Colors"  
 Flyer DP 6247 E "Polymer-soluble dyes for Plastics applications"

NAME	COLOUR INDEX	COLOUR INDEX NO.	COLOUR INDEX NO.							
			PS	SAN	ABS	PC	PET PBT	PMMA	PA	pvc-U
<b>SOLVAPERM YELLOW 3G</b>	Solvent Yellow 93	48160	●	●	–	●	–	●	–	●
<b>SOLVAPERM YELLOW 2G</b>	Solvent Yellow 114	47020	●	●	●	●	●	●	–	●
<b>SOLVAPERM ORANGE 3G</b>	Solvent Orange 60	564100	●	●	●	●	●	●	○	●
<b>SOLVAPERM RED 2G</b>	Solvent Red 179	564150	●	●	●	●	●	●	●	●
<b>SOLVAPERM RED G</b>	Solvent Red 135	564120	●	●	●	●	●	●	○	●
<b>SOLVAPERM RED PFS</b>	Solvent Red 111	60505	●	●	●	●	●	●	○	●
<b>SOLVAPERM RED BB</b>	Solvent Red 195	–	●	●	●	●	●	●	–	●
<b>SOLVAPERM RED VIOLET R</b>	Disperse Violet 26 Solvent Violet 59	62025	●	●	●	●	○	●	○	●
<b>SOLVAPERM VIOLET RSB</b>	Solvent Violet 13	60725	●	●	●	●	●	●	–	●
<b>SOLVAPERM BLUE 2B</b>	Solvent Blue 104	61568	●	●	●	●	●	●	○	●
<b>SOLVAPERM GREEN GSB</b>	Solvent Green 3	61565	●	●	●	●	●	●	–	●
<b>SOLVAPERM GREEN G</b>	Solvent Green 28	625580	●	●	●	●	●	●	–	●
<b>SOLVAPERM BLACK PCR VP 6280</b>	–	–	●	●	●	●	●	●	–	●

# 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 PLA 2004 EN DE  
 "Solvaperm, Hostasol, Polysynthren, Special Colors"  
 Flyer DP 6247 E "Polymer-soluble dyes for Plastics applications"

NAME	COLOUR INDEX	COLOUR INDEX NO.	POLYMER						
			PS	SAN	ABS	PC	PET PBT	PMMa	PA
<b>POLYSYNTHREN YELLOW NG</b>	Pigment Yellow 147	60645	○	○	○	●	●	○	–
<b>POLYSYNTHREN YELLOW RL</b>	Pigment Yellow 192	–	–	–	–	–	○	–	●
<b>POLYSYNTHREN RED GFP</b>	Solvent Red 135	564120	●	●	●	●	●	●	○
<b>POLYSYNTHREN VIOLET G</b>	Solvent Violet 49	48520	○	○	○	●	●	●	–
<b>POLYSYNTHREN BLUE R</b>	Solvent Blue 122	60744	●	●	●	●	●	●	–
<b>POLYSYNTHREN BLUE RLS</b>	Solvent Blue 45	–	●	●	●	●	●	●	–
<b>POLYSYNTHREN BROWN 3RL</b>	Pigment Orange 70	–	○	○	○	●	●	○	–
<b>POLYSYNTHREN BROWN R</b>	Solvent Brown 53	48525	●	●	●	●	●	●	–
<b>POLYSYNTHREN BLACK H</b>	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
			Writing inks	Fiber-tip pen inks	Stamping inks	(e.g. cleaners)
<b>DUASYN INK BLUE SLK</b>	Acid Blue 93	42780	■	■	■	●
<b>DUASYN ACID BLUE AE 03</b>	Acid Blue 9	42090	●	●	●	■
<b>DUASYN ACID BLUE AE LIQUID</b>	Acid Blue 9	42090	■	■	–	■

# 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 NIP 5000 EN  
"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		
<b>DUASYN</b>												
<b>DUASYN MAGENTA CR LIQUID</b>	-	-	■	■	■	●	-	-	-	-	-	
<b>SANOLIN</b>												
<b>SANOLIN RHODAMINE B O2*</b>	Acid Red 52	45100	■	■	■	●	●	■	-	-		

\* = Powder form

# 4.6

## DUASYN SF LIQUID

## DUASYNJET SF LIQUID

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.

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### LITERATURE

NIP 5000 EN  
"Products for Non Impact Printing"

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NAME	COLOUR INDEX	COLOUR INDEX NO.		
<b>DUASYN</b>			Ink Jet Inks	Writing Inks
<b>DUASYN ACID YELLOW XX-SF LIQUID</b>	Acid Yellow 23	19140	■	—
<b>DUASYN YELLOW 3GF-SF LIQUID</b>	Direct Yellow 132	—	■	●
<b>DUASYN BRILLIANT RED F3B-SF LIQUID</b>	Reactive Red 180	181055	■	●
<b>DUASYN MAGENTA CR-SF LIQUID</b>	—	—	■	●
<b>DUASYN ACID BLUE AE-SF 30 LIQUID</b>	Acid Blue 9	42090	■	●
<b>DUASYNJET</b>				
<b>DUASYNJET CYAN FRL-SF LIQUID</b>	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
<b>SAVINYL YELLOW 2GLS 01</b>	Solvent Yellow 79	—	●	■	■	●	○	●	—
<b>SAVINYL YELLOW RLS</b>	Solvent Yellow 83:1	—	●	■	■	●	○	●	●
<b>SAVINYL YELLOW RLSN</b>	Solvent Yellow 83	—	●	■	■	○*	○	●	—
<b>SAVINYL YELLOW 2RLS</b>	Solvent Yellow 62	—	●	■	■	●	○	●	—
<b>SAVINYL ORANGE RLS</b>	Solvent Orange 41	—	●	■	■	●	○	●	—
<b>SAVINYL ORANGE RLSE</b>	Solvent Orange 62	—	●	■	■	○*	○	●	—
<b>SAVINYL FIRE RED 3GLS</b>	Solvent Red 124	—	●	●	○	○*	○	●	—
<b>SAVINYL RED 3BLS</b>	Solvent Red 91	—	●	■	■	●	○	●	●
<b>SAVINYL PINK 6BLS</b>	Solvent Red 127	—	—	●	○	○*	○	●	●
<b>SAVINYL BLUE RS</b>	Solvent Blue 45	—	●	■	●	○*	○	●	—
<b>SAVINYL BLUE GLS</b>	Solvent Blue 44	—	●	■	■	●	○	●	●
<b>SAVINYL GREEN 2GLS 01</b>	Mixture	—	●	■	■	○*	○	●	—
<b>SAVINYL BROWN GLS</b>	Mixture	—	●	■	■	●	○	●	—
<b>SAVINYL BLACK RLSN 01</b>	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
<b>FAT YELLOW 3G</b>	Solvent Yellow 16	12700	■	-	-	-	-
<b>FAT ORANGE R 01</b>	Solvent Yellow 14	12055	■	-	-	-	-
<b>FAT BLUE B 01</b>	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	
<b>SANOLIN QUINOLINE YELLOW 70</b>	Acid Y. 3 / Food Y. 13	47005	■	●	–	●	–	○	■	●	●	
<b>SANOLIN TARTRAZINE X 90</b>	Acid Y. 23 / Food Y. 4	19140	■	–	●	●	●	●	■	●	●	
<b>SANOLIN YELLOW BG 30</b>	Direct Yellow 28	19555	–	■	●	–	–	●	■	–	–	
<b>SANOLIN ORANGE RGL 90</b>	Food Yellow 3	15985	●	–	–	●	●	○	■	●	●	
<b>SANOLIN PONCEAU 4RC 82</b>	Acid R. 18 / Food R. 7	16255	●	–	–	●	●	●	■	●	●	
<b>SANOLIN RED NBG</b>	Acid Red 249	–	–	■	–	–	–	■	■	–	●	
<b>SANOLIN RHODAMINE B 02</b>	Acid Red 52	45100	■	■	■	■	■	■	■	–	●	
<b>SANOLIN RED N-6B</b>	Acid Violet 54	–	–	●	–	■	■	●	■	–	–	
<b>SANOLIN VIOLET E2R</b>	Acid Violet 126	–	–	■	●	■	■	■	■	–	–	
<b>SANOLIN VIOLET FBL</b>	Acid Violet 48	–	–	■	●	■	■	■	■	–	–	
<b>SANOLIN BLUE EHRL</b>	Acid Blue 182	–	–	■	■	■	■	■	■	–	–	
<b>SANOLIN BLUE NBL</b>	Acid Blue 80	61585	■	■	■	■	■	■	■	–	–	
<b>SANOLIN PATENT BLUE V 85 01</b>	Food Blue 5:2	42051:2	●	–	–	●	●	○	■	●	–	
<b>SANOLIN BLUE AE 90</b>	Acid B. 9 / Food B. 2	42090	●	–	–	●	●	○	■	●	–	
<b>SANOLIN TURQUOISE BLUE FBL</b>	Direct Blue 199	74190	–	■	●	●	●	●	■	–	–	



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 SPA 3002 EN  
 "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
<b>SANOLIN VIOLET AS-SP LIQUID</b>	Direct Violet 66	29120	-	●	●	■	●	●	■	-	-
<b>SANOLIN VIOLET AS-E2R LIQUID</b>	Acid Violet 126	-	-	●	●	■	■	■	■	-	-
<b>SANOLIN BLUE EHRL LIQUID</b>	Acid Blue 182	-	-	■	■	■	■	■	■	-	-

# 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

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#### LITERATURE

Flyer SPA 3011 EN  
"Non-staining colorants – Sanolin Lave liquid"

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#### NAME

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**SANOLIN LAVE YELLOW A01 LIQUID**

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**SANOLIN LAVE YELLOW GX LIQUID**

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**SANOLIN LAVE ORANGE R LIQUID**

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**SANOLIN LAVE RED B LIQUID**

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**SANOLIN LAVE PINK B LIQUID**

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**SANOLIN LAVE VIOLET B LIQUID**

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**SANOLIN LAVE BLUE A LIQUID**

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**SANOLIN LAVE BLUE R LIQUID**

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**SANOLIN LAVE BLUE T LIQUID**

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**SANOLIN LAVE GREEN G LIQUID**

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# 4.10

## ALUMINUM DYES AND CHEMICALS

Heubach 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 Heubach 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.

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#### LITERATURE

Pattern card SPA 3001 EN  
 "Sanodal, Sanodure and Sanodye Dyes -  
 For the dyeing of anodized aluminum"

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

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#### LITERATURE

Pattern card SPA 3001 EN  
 "Sanodal, Sanodure and Sanodye Dyes –  
 For the dyeing of anodized aluminum"

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

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### LITERATURE

Pattern card SPA 3001 EN  
 "Sanodal, Sanodure and Sanodye Dyes –  
 For the dyeing of anodized aluminum"

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NAME	SUPPLY FORM	OUTDOOR	INDOOR	HEAVY METAL FREE STRUCTURE
<b>SANODYE YELLOW 3GL</b>	Granules	✓	✓	✓
<b>SANODYE GOLDEN ORANGE RLW</b>	Granules		✓	✓
<b>SANODYE MAGENTA LF</b>	Liquid		✓	✓
<b>SANODYE RED GLW</b>	Granules		✓	✓
<b>SANODYE RED RLW</b>	Granules		✓	✓
<b>SANODYE VIOLET MRB NEW</b>	Powder		✓	✓
<b>SANODYE BLUE 2LW</b>	Granules	✓	✓	✓
<b>SANODYE BLUE G</b>	Granules	✓	✓	✓
<b>SANODYE BROWN R</b>	Granules		✓	✓
<b>SANODYE BLACK OA</b>	Granules	✓	✓	✓

# 4.10 ALUMINUM DYES AND CHEMICALS

## ANODAL

Under the trade name Anodal Heubach 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 SPA 3005 EN  
"Aluminum finishing - Special color solutions"

NAME	SUPPLY FORM	PROCESS STEP	DESCRIPTION
<b>ANODAL EC-2</b>	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.
<b>ANODAL EE</b>	Liquid	Anodizing	Surface leveling, burning prevention, reduced refrigerating temperature, hard coating
<b>ANODAL SUAC</b>	Liquid	Anodizing	Additive for the integral coloring process
<b>ANODAL COLOR S-2</b>	Liquid	Electrolytic coloring	Metal free structure stabilizer for tin sulfate coloring, throwing power trigger; leveling agent
<b>ANODAL SH-1</b>	Liquid	Sealing	Anti-smutting, hot water sealing additive (> 96 °C)
<b>ANODAL SH-2</b>	Liquid	Sealing	Anti-smutting, mid-temperature sealing additive (82-90 °C)
<b>ANODAL ASL</b>	Liquid	Sealing	Anti-smutting, hot nickel sealing additive (> 96 °C)
<b>ANODAL MS-2</b>	Liquid	Sealing	Anti-smutting, nickel containing sealing additive; mid-temperature nickel sealing (75-85 °C)
<b>ANODAL WT-1</b>	Liquid	Waste water	Flocking additive for waster water treatment; removal of dissolved dyestuff
<b>ANODAL WL SPEC.</b>	Liquid	Sealing	Sealing additive improving haptic properties and scratch resistance
<b>ANODAL OL</b>	Powder	Sealing	Smut suppression for hot water or hot nickel seals

# 5 INTERMEDIATES / CHEMICALS

NAME	CAS-NUMBER	APPLICATION
<b>AMIDES</b>		
ACETOACETAMIDE TECHNICAL 50% SOLN	5977-14-0	Agrochemical, Pharma
<b>ARYLIDES</b>		
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
<b>ESTER</b>		
ACETOACETIC ACID METHYLESTER	105-45-3	Pharma, Vitamin E
<b>OTHERS</b>		
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.

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Yellow 1	11680	<b>HANSA YELLOW G 02</b>	<b>AGROCER YELLOW 001</b> <b>AGROCER YELLOW 001 DISP.</b> <b>COLANYL YELLOW G 132</b> <b>COLANYL YELLOW G 530</b> <b>COSMENYL YELLOW 100</b> <b>COSMENYL YELLOW GLS GRAN.</b>
Pigment Yellow 3	11710	<b>HANSA YELLOW 10G</b> <b>HANSA YELLOW 10G 41 GRAN.</b>	<b>COLANYL YELLOW 10G 132</b> <b>HOSTATINT YELLOW 12G 531</b>
Pigment Yellow 12	21090	<b>PERMANENT YELLOW DHG</b> <b>PERMANENT YELLOW DHG N22</b> <b>PERMANENT YELLOW DHG N26</b> <b>PERMANENT YELLOW 2050G</b>	
Pigment Yellow 13	21100	<b>GRAPHTOL YELLOW GR</b> <b>PERMANENT YELLOW G</b> <b>PERMANENT YELLOW GR</b> <b>PERMANENT YELLOW GR 01</b> <b>PERMANENT YELLOW P-GRL 06</b> <b>PERMANENT YELLOW P-GRL 07</b>	<b>HOSTAFINE YELLOW GR 31</b> <b>HOSTASIN YELLOW GR 30</b> <b>LICOSPERSE YELLOW GR 30</b> <b>VISCOFIL GOLDEN RVD</b>
Pigment Yellow 14	21095	<b>PERMANENT YELLOW P-G</b> <b>PERMANENT YELLOW P-GXL 08</b>	<b>VISCOFIL YELLOW A2GN</b>
Pigment Yellow 17	21105	<b>GRAPHTOL YELLOW GG</b> <b>PERMANENT YELLOW GG 02</b>	<b>HOSTAPRINT YELLOW GG</b> <b>VISCOFIL YELLOW GGVD</b>

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Yellow 42	77492		<b>COLANYL OXIDE OLIVE GS 130</b>
			<b>COLANYL OXIDE YELLOW R 132</b>
			<b>COLANYL OXIDE YELLOW R 532</b>
			<b>COSMENYL OXIDE YELLOW 100</b>
			<b>HOSTAFINE TRANSOXIDE YELLOW R 33</b>
			<b>HOSTATINT UV OXIDE YELLOW R</b>
			<b>HOSTATINT OXIDE YELLOW R 532</b>
			<b>HOSTATINT OXIDE YELLOW A-R 100</b>
			<b>HOSTATINT TRANSOXIDE YELLOW A-2R 100</b>
			<b>LICOSPERSE LIGHT BROWN L 30</b>
Pigment Yellow 73	11738	<b>HANSA BRILLIANT YELLOW 4GX</b>	<b>HOSTATINT YELLOW 4GX 531</b>
Pigment Yellow 74	11741	<b>HANSA BRILLIANT YELLOW 5GX</b>	<b>COLANYL YELLOW 5GX 131</b>
		<b>HANSA BRILLIANT YELLOW 5GX 03</b>	<b>COLANYL YELLOW 5GX 530</b>
		<b>HANSA BRILLIANT YELLOW 2GX 70</b>	<b>COLANYL YELLOW 2GXD 130</b>
		<b>HANSA BRILLIANT YELLOW 2GX 70-S</b>	<b>COLANYL YELLOW 2GXD 530</b>
		<b>HANSA BRILLIANT YELLOW 2GX 72-S</b>	<b>FLEXONYL YELLOW WF 074</b>
		<b>HANSA YELLOW 5GX 01</b>	<b>HOSTATINT YELLOW 2GXD 531</b>
		<b>INK JET YELLOW 5GX-W VP 5163</b>	<b>VISCOFIL YELLOW AGX</b>
		<b>TONER YELLOW 5GXT</b>	
		<b>INK JET YELLOW 5GS</b>	
Pigment Yellow 81	21127	<b>NOVOPERM YELLOW H10G 01</b>	
Pigment Yellow 83	21108	<b>NOVOPERM YELLOW HR</b>	<b>COLANYL YELLOW HR 132</b>
		<b>NOVOPERM YELLOW HR 02</b>	<b>COLANYL YELLOW HRD 131</b>
		<b>NOVOPERM YELLOW HR 04</b>	<b>COLANYL YELLOW HRD 530</b>
		<b>NOVOPERM YELLOW HR 70</b>	<b>FLEXOPRINT YELLOW HR</b>
		<b>NOVOPERM YELLOW HR 72</b>	<b>HOSTAFINE YELLOW HR 33</b>
		<b>NOVOPERM YELLOW P-HRE</b>	<b>HOSTAPRINT YELLOW HR-N</b>
		<b>PV FAST YELLOW HR</b>	<b>HOSTASIN YELLOW HR 30</b>
		<b>PV FAST YELLOW HR 02</b>	<b>HOSTATINT YELLOW HR 533</b>
		<b>PV FAST YELLOW HR 03</b>	<b>HOSTATINT YELLOW A-HRD 100</b>
			<b>HOSTANOL HW 30 YELLOW HR</b>

# 6.1

## PIGMENT YELLOW

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Yellow 97	11767	<b>NOVOPERM YELLOW FGL</b>	<b>COLANYL YELLOW FGL 133</b> <b>COLANYL YELLOW FGL 531</b> <b>HOSTATINT YELLOW FGL 532</b>
Pigment Yellow 120	11783	<b>INK JET YELLOW H2G</b> <b>PV FAST YELLOW H2G</b>	
Pigment Yellow 126	21101	<b>PERMANENT YELLOW DGR</b>	<b>FLEXONYL YELLOW DGR-LA</b>
Pigment Yellow 139	56298	<b>GRAPHTOL YELLOW H2R</b> <b>NOVOPERM YELLOW M2R 70</b> <b>NOVOPERM YELLOW P-M3R</b>	<b>HOSTAPRINT YELLOW H2R</b>
Pigment Yellow 147	60645	<b>POLYSYNTHREN YELLOW NG</b>	
Pigment Yellow 150	12764	<b>HOSTAPERM YELLOW HN4G</b>	<b>HOSTATINT YELLOW A-N4G 100-ST</b>
Pigment Yellow 151	13980	<b>HOSTAPERM YELLOW H4G</b> <b>HOSTAPERM YELLOW H4G 70</b> <b>INK JET YELLOW H4G</b> <b>PV FAST YELLOW H4G</b>	
Pigment Yellow 154	11781	<b>HOSTAPERM YELLOW H3G</b> <b>HOSTAPERM YELLOW H3G 02</b>	<b>COLANYL YELLOW H3G 131</b> <b>COLANYL YELLOW H3G 530</b> <b>HOSTATINT YELLOW A-H3G 100</b> <b>HOSTATINT UV YELLOW H3G</b>
Pigment Yellow 155	200310	<b>GRAPHTOL YELLOW 3GP</b> <b>INK JET YELLOW 4G</b> <b>INK JET YELLOW 4GC</b> <b>NOVOPERM YELLOW 4G 01</b> <b>NOVOPERM YELLOW 5GD 71</b> <b>TONER YELLOW 3GP</b> <b>TONER YELLOW 3GP-CT VP5152</b>	<b>HOSTAJET YELLOW 4G-PT</b> <b>VISCOFIL YELLOW 2GLL</b>

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Yellow 174	21098	<b>PERMANENT YELLOW GRS 80</b> <b>PERMANENT YELLOW BHS</b>	
Pigment Yellow 175	11784	<b>HOSTAPERM YELLOW H6G</b>	
Pigment Yellow 176	21103	<b>PERMANENT YELLOW GRX 83</b> <b>PERMANENT YELLOW GRX 86</b>	
Pigment Yellow 180	21290	<b>NOVOPERM YELLOW P-HG</b> <b>PV FAST YELLOW HG</b> <b>PV FAST YELLOW HG 01</b> <b>INK JET YELLOW HG 01 VP 6252</b> <b>TONER YELLOW HG</b>	<b>HOSTAPRINT YELLOW HG</b>
Pigment Yellow 181	11777	<b>NOVOPERM YELLOW H3R</b> <b>NOVOPERM YELLOW H3R-LA</b> <b>PV FAST YELLOW H3R</b> <b>PV FAST YELLOW H3R-LHC</b>	
Pigment Yellow 184	771740	<b>HOSTAPERM OXIDE YELLOW BV 01</b> <b>HOSTAPERM OXIDE YELLOW BV 02</b>	<b>COLANYL OXIDE YELLOW BV 100</b> <b>COLANYL OXIDE YELLOW BV 531</b> <b>HOSTATINT OXIDE YELLOW BV 531</b> <b>HOSTATINT OXIDE YELLOW A-BV 100</b>
Pigment Yellow 191	18795	<b>PV FAST YELLOW HGR</b> <b>PV FAST YELLOW H2GR</b>	<b>HOSTAPRINT YELLOW HGR</b>
Pigment Yellow 192	—	<b>POLYSYNTHREN YELLOW RL</b>	
Pigment Yellow 194	11785	<b>NOVOPERM YELLOW F2G</b>	<b>HOSTATINT YELLOW A-F2G 100</b>
Pigment Yellow 214	—	<b>PV FAST YELLOW H9G</b>	
Pigment Yellow 216	—		<b>HOSTATINT OXIDE ORANGE Z 530</b>

# 6.1

## PIGMENT ORANGE

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Orange 4	12459		<b>VISCOFIL ORANGE GRVD</b>
Pigment Orange 5	12075	<b>HANSA RED GG</b>	<b>COLANYL RED GG 131</b> <b>COLANYL RED GG 531</b>
Pigment Orange 13	21110	<b>PERMANENT ORANGE G</b> <b>PERMANENT ORANGE G 02</b>	<b>FLEXONYL ORANGE G</b> <b>FLEXONYL ORANGE WF 131</b> <b>HOSTASIN ORANGE G 30</b> <b>VISCOFIL ORANGE GG 30</b>
Pigment Orange 34	21115	<b>GRAPHTOL ORANGE RL</b> <b>PERMANENT ORANGE RL 01</b> <b>PERMANENT ORANGE RL 70</b>	<b>VISCOFIL ORANGE RL 30</b>
Pigment Orange 36	11780	<b>NOVOPERM ORANGE HL</b> <b>NOVOPERM ORANGE HL 70</b> <b>NOVOPERM ORANGE HL 71</b>	<b>HOSTATINT ORANGE HLD 533</b> <b>HOSTATINT ORANGE A-HLD 100</b>
Pigment Orange 38	12367	<b>GRAPHTOL RED HFG</b> <b>NOVOPERM RED HFG</b>	<b>HOSTAPRINT RED HFG</b>
Pigment Orange 43	71105	<b>HOSTAPERM ORANGE GR</b> <b>PV FAST ORANGE GRL</b>	
Pigment Orange 62	11775	<b>NOVOPERM ORANGE H5G 70</b>	<b>COLANYL ORANGE H5GD 500</b>
Pigment Orange 64	12760	<b>PV FAST ORANGE H2GL</b>	
Pigment Orange 68	486150	<b>PV FAST ORANGE 6RL</b>	
Pigment Orange 70	—	<b>POLYSYNTHREN BROWN 3RL</b>	
Pigment Orange 72	211095	<b>PV FAST ORANGE H4GL 01</b>	<b>HOSTAPRINT ORANGE H4GL</b>

# 6.1

## PIGMENT RED

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Red 2	12310	<b>PERMANENT RED FRR</b>	<b>VISCOFIL RED AGN</b> <b>VISCOFIL RED GVD</b>
Pigment Red 3	12120	<b>HANSA SCARLET RNC</b> <b>HANSA RED B</b> <b>HANSA RED 3B</b>	
Pigment Red 4	12085	<b>HANSA RED R</b>	
Pigment Red 5	12490	<b>PERMANENT CARMINE FB 01</b>	<b>COLANYL CARMINE FB 130</b> <b>COSMENYL CARMINE OC 100</b> <b>COSMENYL RED BLS GRAN.</b> <b>VISCOFIL RED BL</b>
Pigment Red 9	12460	<b>PERMANENT RED FRLL 01</b>	<b>COLANYL RED FRLL 131</b>
Pigment Red 12	13385	<b>PERMANENT BORDEAUX FRR</b>	
Pigment Red 32	12320		<b>VISCOFIL RUBINE BFVD</b>
Pigment Red 38	21120	<b>GRAPHTOL RED BB</b>	<b>HOSTASIN RED B 30</b>
Pigment Red 48:2	15865:2	<b>GRAPHTOL RED P2B</b> <b>NOVOTEX RED ARCY</b> <b>PERMANENT RED LB 01</b>	<b>AGROCER 482</b> <b>AGROCER 482 DISP.</b>
Pigment Red 48:3	15865:3	<b>GRAPHTOL FIRE RED 3RLP</b>	
Pigment Red 52:1	15860.1	<b>PERMANENT RUBINE PBC 06</b>	
Pigment Red 53:1	15585:1	<b>GRAPHTOL RED LC</b> <b>GRAPHTOL RED LG</b> <b>PERMANENT LAKE RED LCLL</b> <b>PERMANENT LAKE RED LCY</b> <b>PERMANENT LAKE RED LCYT</b>	

# 6.1

## PIGMENT RED

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Red 57:1	15850:1	<b>COSMETIC RED 3B</b>	
		<b>GRAPHTOL RUBINE L4B</b>	
		<b>PERMANENT RUBINE L4B 01</b>	
		<b>PERMANENT RUBINE L5B 01</b>	
		<b>PERMANENT RUBINE P-L5B 01</b>	
Pigment Red 101	77491		<b>COLANYL OXIDE RED B 131</b>
			<b>COLANYL OXIDE RED B 531</b>
			<b>COLANYL OXIDE RED G 130</b>
			<b>COLANYL OXIDE RED G 531</b>
			<b>HOSTAFINE TRANSOXIDE RED B 33</b>
			<b>HOSTATINT OXIDE RED B 532</b>
			<b>HOSTATINT OXIDE RED A-B 100</b>
			<b>HOSTATINT UV OXIDE RED B</b>
Pigment Red 112	12370		<b>HOSTATINT TRANSOXIDE RED A-G 100</b>
			<b>LICOSPERSE OXIDE RED 30</b>
		<b>PERMANENT RED FGR</b>	<b>AGROCER RED 112</b>
		<b>PERMANENT RED FGR 02</b>	<b>AGROCER RED 112 DISP.</b>
		<b>PERMANENT RED FGR 03</b>	<b>COLANYL RED FGR 131</b>
		<b>PERMANENT RED FGR 70</b>	<b>COLANYL RED FGR 531</b>
			<b>COLANYL RED FGRD 530</b>
			<b>COLANYL RED FGRG 130</b>
			<b>FLEXONYL RED SP-FGR</b>
			<b>HOSTAFINE RED FGR 30</b>
	<b>HOSTATINT RED FGR 531</b>		



<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Red 122	73915	<b>HOSTAPERM PINK E</b>	<b>COLANYL PINK E 130</b>
		<b>HOSTAPERM PINK E 02</b>	<b>COLANYL PINK E 532</b>
		<b>HOSTAPERM PINK E WD 01</b>	<b>COLANYL PINK E-WD 531</b>
		<b>HOSTAPERM PINK EB TRANSP.</b>	<b>HOSTAFINE MAGENTA E 30</b>
		<b>INK JET MAGENTA E 02</b>	<b>HOSTAJET MAGENTA E-PT</b>
		<b>PV FAST PINK E</b>	<b>HOSTAPRINT PINK E</b>
		<b>PV FAST PINK E 01</b>	<b>HOSTATINT PINK E 532</b>
		<b>PV FAST PINK E2B</b>	<b>HOSTATINT PINK A-E 130</b>
		<b>TONER MAGENTA E</b>	<b>HOSTATINT PINK A-EB 100-ST</b>
<b>TONER MAGENTA E 02</b>			
Pigment Red 146	12485	<b>NOVOTEX CARMINE FBB</b>	<b>FLEXONYL CARMINE SP-FBB</b>
		<b>PERMANENT CARMINE FBB 02</b>	
Pigment Red 147	12433	<b>PERMANENT PINK F3B 01</b>	
Pigment Red 149	71137	<b>PV FAST RED B</b>	
Pigment Red 168	59300	<b>HOSTAPERM SCARLET GO</b>	<b>COLANYL SCARLET GO 131</b>
			<b>COLANYL SCARLET GO 533</b>
			<b>HOSTATINT SCARLET GO 531</b>
Pigment Red 170	12475	<b>GRAPHTOL RED F3RK 70</b>	<b>HOSTAFINE RED F5RK 30</b>
		<b>GRAPHTOL RED F5RK</b>	<b>HOSTANOL HW 30 RED F5RK</b>
		<b>NOVOPERM RED F2RK 70</b>	<b>VISCOFIL RED F5RK 30</b>
		<b>NOVOPERM RED F3RK 70</b>	
		<b>NOVOPERM RED F5RK</b>	
Pigment Red 176	12515	<b>NOVOTEX RED F4RK</b>	
		<b>GRAPHTOL CARMINE HF3C</b>	
		<b>NOVOPERM CARMINE HF3C</b>	

# 6.1

## PIGMENT RED

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Red 179	71130	<b>HOSTAPERM RED P2GL-WD</b>	<b>HOSTAFINE RED P2GL 30</b> <b>HOSTATINT RED A-P2Y 100-ST</b>
Pigment Red 181/ Vat Red 1	73360	<b>COSMETIC PINK RC 01</b>	
Pigment Red 184	12487	<b>PERMANENT RUBINE F6B</b>	<b>HOSTAFINE RUBINE F6B 31</b>
Pigment Red 185	12516	<b>GRAPHTOL CARMINE HF4C</b> <b>NOVOPERM CARMINE HF4C</b>	<b>HOSTAPRINT CARMINE HF4C</b>
Pigment Red 187	12486	<b>NOVOPERM RED HF4B</b> <b>PV FAST RED HF4B</b>	
Pigment Red 188	12467	<b>NOVOPERM RED HF3S</b> <b>NOVOPERM RED HF3S 70</b>	<b>COLANYL RED HF3S 530</b> <b>HOSTAFINE RED HF3S</b>
Pigment Red 208	12514	<b>GRAPHTOL RED HF2B</b> <b>NOVOPERM RED HF2B 01</b>	<b>HOSTAPRINT RED HF2B</b> <b>HOSTASIN RED HF2B 30</b>
Pigment Red 210	12477	<b>PERMANENT RED P-FK</b>	
Pigment Red 214	200660	<b>NOVOPERM RED BN</b> <b>PV FAST RED BNP</b>	
Pigment Red 242	20067	<b>NOVOPERM SCARLET 4RF 01</b> <b>PV FAST SCARLET 4RF</b>	
Pigment Red 247	15915	<b>PV FAST RED HB</b>	
Pigment Red 254	56110	<b>HOSTAPERM RED D3G 70-CN</b> <b>HOSTAPERM RED D3G 73</b> <b>HOSTAPERM RED D2G 71</b> <b>HOSTAPERM RED D2G 72</b> <b>PV FAST RED D3G</b>	<b>COLANYL RED D3GD 532</b> <b>HOSTAJET RED D3G-PT VP 5121</b> <b>HOSTAPRINT RED D3G</b> <b>HOSTATINT RED D3GD 530</b> <b>HOSTATINT RED A-D3GD 130</b> <b>HOSTATINT UV RED D3GD</b>

# 6.1

## PIGMENT VIOLET

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Violet 19	73900	<b>HOSTAPERM RED E2B 70</b>	<b>COLANYL RED E3B 130</b>
		<b>HOSTAPERM RED E3B</b>	<b>COLANYL RED E3B 531</b>
		<b>HOSTAPERM RED E5B 02</b>	<b>HOSTAJET MAGENTA E5B-PT</b>
		<b>HOSTAPERM RED VIOLET ER 02</b>	<b>HOSTATINT RED VIOLET A-ER 130</b>
		<b>INK JET MAGENTA E5B 02</b>	
		<b>PV FAST RED E3B</b>	
		<b>PV FAST RED E5B</b>	
Pigment Violet 23	51319	<b>HOSTAPERM VIOLET BL 01</b>	<b>AGROCER VIOLET 023</b>
		<b>HOSTAPERM VIOLET RL SPEC. 01</b>	<b>AGROCER VIOLET 023 DISP.</b>
		<b>HOSTAPERM VIOLET RL 02</b>	<b>COLANYL VIOLET RL 132</b>
		<b>HOSTAPERM VIOLET P-RL</b>	<b>COLANYL VIOLET RL 532</b>
		<b>PV FAST VIOLET BLP</b>	<b>COSMENYL VIOLET 100</b>
		<b>PV FAST VIOLET RL</b>	<b>HOSTAFINE VIOLET RL 31</b>
			<b>HOSTAPRINT VIOLET RL</b>
			<b>HOSTATINT VIOLET RL 533</b>
			<b>HOSTATINT VIOLET A-RL 100</b>
Pigment Violet 32	12517	<b>GRAPHTOL BORDEAUX HF3R</b>	<b>VISCOFIL BORDEAUX BB 30</b>
		<b>NOVOPERM BORDEAUX HF3R</b>	

# 6.1

## PIGMENT BLUE

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Blue 15	74160	<b>GRAPHTOL BLUE AN 01</b>	<b>LICOSPERSE BLUE AN 30</b> <b>VISCOFIL BLUE ARN</b> <b>VISCOFIL BLUE FRVD</b>
Pigment Blue 15:1	74160	<b>HOSTAPERM BLUE A4R</b> <b>HOSTAPERM BLUE BT-728-D</b> <b>HOSTAPERM BLUE BT-729-D</b> <b>PV FAST BLUE A2R</b> <b>PV FAST BLUE A4R</b>	<b>COLANYL BLUE A2R 131</b> <b>COLANYL BLUE A2R 531</b> <b>COSMENYL BLUE OC 100</b> <b>HOSTAPRINT BLUE A2R</b> <b>HOSTASIN BLUE A2R 30</b> <b>COSMENYL BLUE BLS 30 GRAN.</b> <b>HOSTATINT BLUE A-BTR 100-ST</b>
Pigment Blue 15:2	74160	<b>HOSTAPERM BLUE BT-627-D</b>	
Pigment Blue 15:3	74160	<b>HOSTAPERM BLUE B2G 03</b> <b>PV FAST BLUE BG</b> <b>PV FAST BLUE BG-NIP</b>	<b>AGROCER BLUE 153</b> <b>AGROCER BLUE 153 DISP.</b> <b>COLANYL BLUE B2G 131</b> <b>COLANYL BLUE B2G 530</b> <b>FLEXONYL BLUE WF 153</b> <b>HOSTAFINE BLUE B2G 30</b> <b>HOSTAJET CYAN BG-PT</b> <b>HOSTAPRINT BLUE B2G</b> <b>HOSTATINT BLUE B2G 531</b> <b>HOSTATINT BLUE A-BG 100</b> <b>HOSTATINT UV BLUE BG</b> <b>HOSTANOL HW 30 BLUE B2G</b> <b>VISCOFIL BLUE B2G 30</b>
Pigment Blue 15:4	74160	<b>HOSTAPERM BLUE BT-617-D</b>	<b>HOSTATINT BLUE A-BTG 100-ST</b>
Pigment Blue 28	77346		<b>COLANYL OXIDE BLUE COR 100</b> <b>COLANYL OXIDE BLUE COR 531</b> <b>HOSTATINT OXIDE BLUE COR 531</b>

# 6.1

## PIGMENT GREEN

## PIGMENT BROWN

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Green 7	74260	<b>HOSTAPERM GREEN GNX</b>	<b>AGROCER GREEN 007</b>
		<b>HOSTAPERM GREEN GNX 01</b>	<b>AGROCER GREEN 007 DISP.</b>
		<b>HOSTAPERM GREEN GNX 02</b>	<b>COLANYL GREEN GG 131</b>
		<b>HOSTAPERM GREEN GNX-C</b>	<b>COLANYL GREEN GG 531</b>
		<b>PV FAST GREEN GNX</b>	<b>COSMENYL GREEN OC 100</b>
			<b>COSMENYL GREEN 2GLS GRAN.</b>
			<b>HOSTAFINE GREEN GN 30</b>
			<b>HOSTAPRINT GREEN GG</b>
			<b>HOSTASIN GREEN GG 30</b>
			<b>HOSTATINT GREEN GG 530</b>
			<b>HOSTATINT GREEN A-GNX 130</b>
			<b>HOSTATINT GREEN A-GBX 100-ST</b>
Pigment Green 17	77288		<b>LICOSPERSE GREEN G 30</b>
			<b>VISCOFIL GREEN A-GNS</b>
			<b>COLANYL OXIDE GREEN G 131</b>
			<b>COLANYL OXIDE GREEN G 531</b>
Pigment Green 36	74265		<b>COLANYL OXIDE BLACK IR 531</b>
			<b>HOSTATINT OXIDE GREEN G 532</b>
Pigment Green 50	77377		<b>HOSTAJET GREEN 8G-PT VP 5154</b>
			<b>HOSTATINT OXIDE GREEN CO 532</b>
Pigment Brown 24	77310		<b>COLANYL OXIDE YELLOW CR 130</b>
			<b>HOSTATINT OXIDE YELLOW A-CR 100</b>
Pigment Brown 25	12510	<b>HOSTAPERM BROWN HFR 01</b>	<b>HOSTAPRINT BROWN HFR</b>
		<b>PV FAST BROWN HFR</b>	<b>HOSTANOL HW 30 BROWN HFR</b>
			<b>VISCOFIL BROWN HFR 30</b>
Pigment Brown 41	—	<b>PV FAST BROWN RL</b>	<b>HOSTAPRINT BROWN RL</b>

# 6.1

## PIGMENT BLACK

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment Black 7	77266		<b>COLANYL BLACK N 131</b>
			<b>COLANYL BLACK N 530</b>
			<b>COLANYL BLACK N 511</b>
			<b>COLANYL BLACK PR 130</b>
			<b>COSMENYL BLACK 100</b>
			<b>FLEXONYL BLACK A-CB</b>
			<b>FLEXONYL BLACK PR 100</b>
			<b>FLEXONYL BLACK WF 007</b>
			<b>FLEXOPRINT BLACK CB 01</b>
			<b>HOSTAFINE BLACK T 31</b>
			<b>HOSTAFINE BLACK TS 31</b>
			<b>HOSTAJET BLACK O-PT</b>
			<b>HOSTAPRINT BLACK L</b>
			<b>HOSTATINT BLACK GR 531</b>
			<b>HOSTATINT BLACK A-N 100</b>
			<b>HOSTATINT BLACK A-NB 100-ST</b>
			<b>HOSTATINT BLACK A-NY 100-ST</b>
			<b>HOSTATINT UV BLACK N 30</b>
			<b>HOSTANOL HW 30 BLACK R</b>
			<b>LICOSPERSE BLACK PVP 30</b>
	<b>VISCOFIL BLACK AV</b>		
	<b>VISCOFIL BLACK 2BLN</b>		
	<b>VISCOFIL BLACK VBC</b>		
Pigment Black 11	77499		<b>COLANYL OXIDE BLACK B 130</b>
			<b>COLANYL OXIDE BLACK B 533</b>
Pigment Black 26	77537		<b>HOSTATINT OXIDE BLACK B 532</b>

# 6.1

## PIGMENT WHITE

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>STANDARD RANGES AND OTHER GRADES</b>	<b>PREPARATIONS</b>
<b>PIGMENTS</b>			
Pigment White 6	77891		<b>COLANYL WHITE R 130</b>
			<b>COLANYL WHITE R 530</b>
			<b>FLEXONYL WHITE RL 130</b>
			<b>FLEXONYL WHITE RS 32</b>
			<b>HOSTATINT WHITE R 530</b>
			<b>HOSTATINT WHITE A-R 100</b>
			<b>HOSTATINT UV WHITE R</b>
			<b>HOSTANOL HW 30 WHITE T</b>
			<b>VISCOFIL WHITE A-RCL 30</b>

# 6.2 DYES

<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>DYE RANGES</b>
<b>DYES</b>		
Acid Yellow 3 (Food Yellow 13)	47005	<b>SANOLIN QUINOLINE YELLOW 70</b>
Acid Yellow 23 (Food Yellow 4)	19140	<b>DUASYN ACID YELLOW XX-SF LIQUID</b> <b>SANOLIN TARTRAZINE X 90</b>
Acid Red 18 (Food Red 7)	16255	<b>SANOLIN PONCEAU 4RC 82</b>
Acid Red 52	45100	<b>SANOLIN RHODAMINE B 02</b>
Acid Red 249	18134	<b>SANOLIN RED NBG</b>
Acid Violet 48	–	<b>SANOLIN VIOLET FBL</b>
Acid Violet 54	–	<b>SANOLIN RED N-6B</b>
Acid Violet 126	–	<b>SANOLIN VIOLET E2R</b> <b>SANOLIN VIOLET AS-E2R LIQUID</b>
Acid Blue 9 (Food Blue 2)	42090	<b>DUASYN ACID BLUE AE LIQUID</b> <b>DUASYN ACID BLUE AE-SF 30 LIQUID</b> <b>DUASYN ACID BLUE AE 03</b> <b>SANOLIN BLUE AE 90</b>
Acid Blue 80	61585	<b>SANOLIN BLUE NBL</b>
Acid Blue 93	42780	<b>DUASYN INK BLUE SLK</b>
Acid Blue 182	–	<b>SANOLIN BLUE EHRL</b> <b>SANOLIN BLUE EHRL LIQUID</b>



<b>COLOUR INDEX GENERIC NAME</b>	<b>NO.</b>	<b>DYE RANGES</b>
<b>DYES</b>		
Direct Yellow 28	19555	<b>SANOLIN YELLOW BG 30</b>
Direct Yellow 132	–	<b>DUASYN YELLOW 3GF-SF LIQUID</b>
Direct Violet 66	29120	<b>SANOLIN VIOLET AS-SP LIQUID</b>
Direct Blue 199	74190	<b>DUASYNJET CYAN FRL-SF LIQUID</b>
		<b>SANOLIN TURQUOISE BLUE FBL</b>
Direct Black 168	–	<b>DUASYN BLACK HEF-SF LIQUID</b>
Disperse Violet 26 (Solvent Violet 59)	62025	<b>SOLVAPERM RED VIOLET R</b>
Food Yellow 3	15985	<b>SANOLIN ORANGE RGL 90</b>
Food Blue 5:2	42051:2	<b>SANOLIN PATENT BLUE V 85 01</b>
Reactive Red 180	181055	<b>DUASYN BRILLIANT RED F3B-SF LIQUID</b>

# 6.2 DYES

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

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



# 7

## 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.

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#### LITERATURE

Flyer PLA 2015 EN  
"Optical Brighteners – for plastics applications"

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PRODUCT	PET/PBT PE	PP	PS	SAN	ABS	PC	PMMA	PA	PVC-U	PVC-P	EVA
KCB P	●	●	●	●	●	●	●	●	■	■	■
KS P	■	■	■	■	■	■	■	■	●	○	–
KSN P	■	■	■	■	■	■	■	■	●	○	–
KSC P	–	–	–	–	–	–	–	–	■	■	–
KS1 P	■	–	–	■	●	●	–	■	–	–	–
NSM P*	–	–	–	–	–	–	–	–	–	–	–

\* = Only for PAN dry spinning ■



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