

Colorants for the **PAINT INDUSTRY**



Pigments, pigment preparations and dyes **FROM CLARIANT**

Clariant supplies pigments and dyes. These ranges, supplemented by pigment preparations, special formulations and special grades, contain a wide variety of products for the paint and surface coatings industry as well as for other special fields.

On the following pages we give a general overview of our colorants, indicating their possible uses in the main fields of application. Only the standard ranges of the pigments and dyes have been included here.

It is not appropriate to treat the other special grades, preparations and special dyes in the same way because they appear in the brochure as separate ranges with details of their special fields of application.

THE SYMBOLS MEAN:

- = highly recommended
- = recommended
- = limited suitability

We would however point out that these recommendations are a general guide intended to make it easier selecting suitable products from our range of colorants.

Frequently required physical data of the pigments and additional technical details about the aqueous pigment preparations, such as pigment and solids content as well as type and amount of solvent, are given in the brochure.

Details of coloristic and fastness properties can be taken from the literature quoted and the following pattern cards:

- PI 2013 E »Pigments - Automotive, decorative and industrial paints«
- PI 2003 E »Pigments for automotive paints«
- DP 8524 ED »Colorants for Powder Coatings«

Our sales organizations and our technical service and development department will be pleased to give you further information at any time.

NOTES ON DIARYLIDE PIGMENTS

It has been known for some time that thermal degradation may occur when diarylide pigments are processed in polymers at temperatures above 200 °C.

Pigments supplied by Clariant with the following Colour Index numbers are such diarylide pigments:

- Pigment Yellow 12
- Pigment Yellow 13
- Pigment Yellow 16
- Pigment Yellow 17
- Pigment Yellow 81
- Pigment Yellow 83
- Pigment Orange 13
- Pigment Orange 34

The trade names of all commercial products recommended for the paint industry that are based on the above diarylide pigments can be found in this brochure (pages 28–30).

These products can form traces of aromatic amines at processing temperatures above 200 °C **in the presence of polymers** (see safety data sheets; further information is also given in ETAD INFORMATION NOTICE No. 2 »Thermal Decomposition of Diarylide Pigments« – September 1990).

Colorants for the Paint Industry

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1 STANDARD RANGES OF PIGMENTS

1.1 HOSTAPERM®¹ PIGMENTS

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 PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

HOSTAPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
OXIDE YELLOW BV 01	P. Y. 184	■	■	■	■	■	●	●	■	■	●	●	6.00	7	19	❖
OXIDE YELLOW BV 02	P. Y. 184	■	■	■	■	■	●	●	■	■	●	●	6.00	7	18	❖
YELLOW H6G	P. Y. 175	●	●	■	●	■		●		●	●		1.52	28	70	215
YELLOW H5G	P. Y. 213	■	■	■	■	●	●	●	●	●	●	●	1.52	22	79	210
YELLOW H4G	P. Y. 151	●	■	■		■		○		■	●		1.55	23	48	215
YELLOW H4G-EDS	P. Y. 151	●	■	■		■		○			●		1.55	23	48	215
YELLOW H4G 70	P. Y. 151	●	■	■		■		○		■	●		1.57	20	58	278
YELLOW H3G	P. Y. 154	■	●	■	○	●	○	●		●	●	●	1.59	19	56	275
YELLOW H3G-EDW	P. Y. 154	●	●				○				■		1.59	19	56	275
ORANGE GR	P. O. 43	●	●	●	●	●	●	●	●	●	●	■	1.58	38	83	190
SCARLET GO	P. R. 168	■	■	■	■	●	●		○	●	●	■	2.08	33	70	220
SCARLET GO-EDW	P. R. 168						○				■		2.08	33	70	220
SCARLET GO TRANSP.	P. R. 168	■	■	■	■	●	●						2.01	22	50	125
RED D3G 70	P. R. 254	●	●		■	■	■	●	●	●	●	●	1.60	27	55	280
RED D3G 70-EDW	P. R. 254						○				■		1.60	27	55	280
RED D2G 70	P. R. 254	■	■	■	■	■	■	●	●	●	●	●	1.55	16	51	310
RED P2GL-WD	P. R. 179	■	●	○	■		●						1.56	❖	35	45
RED E4G	P. V. 19	■	■	■	■	●	●	●	●	■	●	●	1.48	19	67	256
RED E2B 70	P. V. 19	■	●	■	○	●	○	●	○				1.46	31	85	220
RED E3B	P. V. 19	●	●	■	■	■	●	●	○	●	●	●	1.48	41	59	195
RED E5B 02	P. V. 19	●	●	■	■	■	●	●	○	●	●	●	1.47	90	82	65

■ highly recommended ● recommended ○ limited suitability ❖ not measurable

HOSTAPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
PINK E	P. R. 122	■	■	■	■	■	●	●	○	●	●	●	1.45	77	65	90
PINK E-EDS	P. R. 122	●	■	■		■		●			●		1.45	77	65	90
PINK E-EDW	P. R. 122	●	●		●		■					■	1.45	77	65	90
PINK E-WD	P. R. 122					○	●					■	1.44	76	65	60
PINK E O2-EDW	P. R. 122						●					■	1.45	77	65	90
PINK E TRANSP. 01	P. R. 122	■	■	■	○	●	○	●					1.50	75	80	65
PINK EB TRANSP.	P. R. 122	■	■	■	○	●	○	●	○				1.47	80	78	55
RED VIOLET ER 02	P. V. 19	■	■	■	■	■	●	●	○	●	●	●	1.49	83	68	70
VIOLET BL 01	P. V. 23	■	■	■	■	■	●	●	●	●	●	●	1.50	103	70	50
VIOLET RL SPEC.	P. V. 23	■	■	■	■	■	●	●	●	●	●	●	1.49	80	78	50
VIOLET RL-NF	P. V. 23	■	■	■	○	■	○	●					1.52	99	78	45
BLUE A4R	P. B. 15:1	●	●	■	■	■	●	●	●	■	●	●	1.61	65	74	60
BLUE BT-728-D	P. B. 15:1	■	■	■	■								1.68	86	82	40
BLUE BT-729-D	P. B. 15:1	■	■	■	■								1.65	74	75	65
BLUE BT-627-D	P. B. 15:2	■	■	■	■	●	●	●	●				1.55	57	64	60
BLUE B2G	P. B. 15:3	●	●	■	■	■	●	●	●	●	●	●	1.61	52	54	95
BLUE B2G-EDS	P. B. 15:3	■	■	■	○	■	○	●	■	■	■	○	1.61	52	54	95
BLUE B2G-L	P. B. 15:3	●	●	■	■	■	●	●	●	■	●	●	1.60	44	61	75
BLUE BT-617-D	P. B. 15:4	■	■	■	■	●	●	●	●				1.62	52	67	65
GREEN GNX	P. G. 7	■	■	■	■	■	●	●	●	●	●	●	2.05	40	50	50
GREEN GNX-EDS	P. G. 7	■	■	■	○	■	○	●	■	■	■	○	2.05	40	50	50
BROWN HFR 01	P. BR. 25	■	■	■	■	●	●	●	○	●			1.52	90	86	80

■ highly recommended ● recommended ○ limited suitability

1.2 NOVOPERM® PIGMENTS

Novoperm is the trade name for pigments with above-average fastness properties. These tried and tested products are suitable - depending on the grade - for use in the paint industry when the pigments have to meet special requirements.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

NOVOPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
YELLOW FGL	P. Y. 97					●	●	●		○	■	■	1.39	14	55	255
YELLOW F2G	P. Y. 194					■	●	●		■	●	●	1.46	19	98	315
YELLOW F2G-EDS	P. Y. 194					■		●			●		1.46	19	98	315
YELLOW 5GD 71	P. Y. 155	○	●	■	■	■	■	●	○	■	●	●	1.44	34	67	205
YELLOW H2G	P. Y. 120		●			■	●	●		■			1.52	30	48	115
YELLOW HR	P. Y. 83					●	●	●		●	●		1.43	27	87	40
YELLOW HR 70	P. Y. 83	○	●	●	●	■	●	●		■	●	●	1.51	21	66	325
YELLOW HR 70-EDS	P. Y. 83		●	●		■		●			●		1.51	21	66	325
YELLOW M2R 70	P. Y. 139	●	●	■	■	■	○	●	○	■			1.75	20	45	220
ORANGE H5G 70	P. O. 62	○	●	●	○	■	●	●		●	●	●	1.52	10	72	745
ORANGE HL	P. O. 36					●	●	●		●	●	●	1.64	31	68	155
ORANGE HL 70	P. O. 36	■	■	■	■	■	●	●	○	■	●	●	1.62	14	64	395
ORANGE HL 70-EDW	P. O. 36	■	■	○	■	○	■	●		○	○	■	1.62	14	64	395
ORANGE HL 70-NF	P. O. 36	■	■	■	○	●	○						1.63	15	72	370
RED HF3S	P. R. 188					●	●	●		●	■	■	1.47	22	74	145
RED HF3S 70	P. R. 188	●	●	■	○	■	●	●	○	●	●	●	1.49	13	72	255
RED F2RK 70	P. R. 170	●	●	●	●	●	●	●		●			1.40	19	60	315
RED F3RK 70	P. R. 170	○	●		●	■	●	●		■			1.44	19	65	270
RED F5RK	P. R. 170					■	●	●		■			1.40	25	69	215

■ highly recommended ● recommended ○ limited suitability

1.2.1

NOVOPERM® PIGMENTS

not standardized in paint

NOVOPERM	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
YELLOW 4G 01	P. Y. 155					●	●	●	○	●			1.45	38	75	115
YELLOW HR 02	P. Y. 83					●	●	●		●			1.49	74	79	55
YELLOW P-M3R	P. Y. 139					●	●		○				1.65	60	55	75
RED HFG	P. O. 38								○	●			1.46	67	87	165
CARMINE HF4C	P. R. 185									●			1.48	52	90	165
BORDEAUX HF3R	P. V. 32					●	●	●	○	●			1.48	44	83	170

■ highly recommended ● recommended ○ limited suitability ❖ not measurable

1.3 PERMANENT PIGMENTS

This group comprises of pigments that vary in fastness properties. Because of their high tinctorial strength, good gloss and largely good light fastness Permanent pigments are used in industrial and decorative paint systems.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm, Novoperm, Permanent, Hansa«

PERMANENT	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
ORANGE RL 70	P. O. 34					■	●	○		■		1.43	30	68	150	
RED FGR	P. R. 112					■	●	○		○	■	1.49	25	76	200	
RED FGR 02	P. R. 112					■	●	○			■	1.49	31	82	140	
RED FGR 70	P. R. 112					■	●	○		○	■	1.48	11	48	295	
BORDEAUX FGR	P. R. 14					●	●	○			■	1.42	25	59	90	
BORDEAUX FRR	P. R. 12					○	○	○			■	1.37	25	70	95	

■ highly recommended ● recommended ○ limited suitability

1.3.1

PERMANENT PIGMENTS

not standardized in paint

PERMANENT	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
YELLOW GG 02	P. Y. 17					○	○			○		1.36	23	114	85	
YELLOW DHG	P. Y. 12					○	○					1.39	31	96	100	
YELLOW GR	P. Y. 13					○	○			○		1.36	47	85	75	
ORANGE G	P. O. 13					○	○			○		1.41	38	80	130	
ORANGE RL 01	P. O. 34					○				●		1.40	58	95	50	
LAKE RED LCLL	P. R. 53:1					○						1.80	58	72	115	
CARMINE FBB 02	P. R. 146					●	●	●				1.41	32	69	155	

■ highly recommended ● recommended ○ limited suitability

1.4 HANSA® PIGMENTS

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 overpainting. They are standard pigments for air-drying paints.

LITERATURE

Pattern card PI 2014 E
»Pigments for the Paint Industry - Hostaperm,
Novoperm, Permanent, Hansa«

HANSA	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
YELLOW 10G	P. Y. 3					○	○	○			■	●	1.58	11	59	405
YELLOW 10G 41 GRAN.	P. Y. 3					○	○	○			■	●	1.57	12	74	❖
BRILLIANT YELLOW 5GX	P. Y. 74					○	○	○			■	●	1.41	34	59	135
BRILLIANT YELLOW 4GX	P. Y. 73					○	○	○			■	●	1.48	21	59	200
BRILLIANT YELLOW 2GX 70	P. Y. 74					○	○	○			■	■	1.43	16	54	340
BRILLIANT YELLOW 2GX 70-S	P. Y. 74					○	○	○			■	■	1.43	16	59	312
BRILLIANT YELLOW 2GX 70-S-EDW	P. Y. 74						○					■	1.43	16	59	312
RED GG	P. O. 5					○	○				■	○	1.55	12	59	285
SCARLET RNC	P. R. 3					●		●			●		1.42	17	74	255
RED 3B	P. R. 3					●		●			●		1.42	9	55	405

■ highly recommended

● recommended

○ limited suitability

❖ not measurable

1.5 OTHER PIGMENTS

not standardized in paint

1.5.1 PV FAST® PIGMENTS

Highly fast organic pigments with outstanding heat resistance, light fastness and bleeding fastness in various polymers. Because of their very good heat resistance, selected pigments can be used in special paint systems after preliminary trials.

PV FAST	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption	Average size of primary particles
												g/cm ³	m ² /g	ml/100g	nm	
YELLOW HG	P. Y. 180								●	●			1.46	28	98	180
YELLOW HGR	P. Y. 191								●	●			1.71	20	79	600
YELLOW H3R	P. Y. 181	○	○	●					●	●			1.48	27	118	415
ORANGE H4GL 01	P. O. 72								●	●			1.51	39	78	140
RED B	P. R. 149								●	●			1.40	56	66	35
RED 3B	P. R. 144									●			1.52	30	79	460
BLUE A2R	P. B. 15:1									●			1.65	70	63	40
BLUE BG	P. B. 15:3									■			1.62	57	61	95

■ highly recommended ● recommended ○ limited suitability

1.5.2 GRAPHTOL® PIGMENTS

Graphtol pigments have lower general fastness properties than the PV Fast pigments. Selected pigments can be used for low-cost powder coating formulations after preliminary trials.

GRAPHTOL	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS				DECORATIVE PAINTS		PHYSICAL DATA			
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based	Density	Specific surface	Oil absorption
												g/cm ³	m ² /g	ml/100g	nm
YELLOW 3GP 01	P. Y. 155								○			1.39	52	59	❖
YELLOW H2R	P. Y. 139								○			1.66	59	66	75
RED LC	P. R. 53:1								○			1.82	42	70	160
FIRE RED 3RLP	P. R. 48:3								○			1.84	28	60	270
RUBINE L4B	P. R. 57:1								○			1.66	68	67	76

○ limited suitability

❖ not measurable

2 NUMERICAL CODE AND SPECIAL GRADES

2.1

EASILY DISPERSIBLE PIGMENTS

In the paint manufacturing process, one of the most important steps is the dispersion of pigments. Clariant has developed a new range of organic pigments: The »Easily Dispersible pigments«, called »ED pigments«, to simplify this process. As the name suggests, ED pigments can be easily incorporated into paint systems with a dissolver, and without an additional milling step.

This is an innovative approach for paint manufacturing which offers efficiency as well as savings in raw materials and energy. To achieve »Easily Dispersible pigments« characteristics of organic pigments, Clariant has developed an economic production process which includes surface treatment of the pigments with highly efficient and widely compatible dispersing additives.

LITERATURE

Brochure PI 2009 E
»Easily Dispersible Pigments - EDS Pigments «,
Brochure PI 2010 E
»Easily Dispersible Pigments - EDW Pigments «

EDS PIGMENTS

(EDS = Easily Dispersible Solvent)

Dissolver dispersible pigments for solvent-based industrial coating systems

EDW PIGMENTS

(EDW = Easily Dispersible Water)

Easily dispersible pigments for water-based pigment dispersions for decorative paints

For further information, please refer to our ED brochures PI 2009 E (EDS) and PI 2010 E (EDW).

2.2

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.).
- 30 - 39 Alteration of standards or improvements to pigment preparations with their own range name.
- 40 - 49 Pigments with improved dispersibility primarily for air-drying paints.
- 70 - 79 Highly opaque pigments with very good flow properties.

2.3

OPAQUE PIGMENTS FOR LEAD-FREE PIGMENTATIONS

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

2.4

TRANSPARENT PIGMENTS FOR EFFECT PAINTS

HOSTAPERM ORANGE GR
HOSTAPERM SCARLET GO
HOSTAPERM SCARLET GO TRANSP.
HOSTAPERM RED P2GL-WD
HOSTAPERM RED E5B 02
HOSTAPERM PINK E
HOSTAPERM PINK E TRANSP. 01
HOSTAPERM PINK EB TRANSP.
HOSTAPERM RED VIOLET ER 02
HOSTAPERM VIOLET BL 01
HOSTAPERM VIOLET RL SPEC.
HOSTAPERM VIOLET RL-NF
HOSTAPERM BLUE BT-728-D
HOSTAPERM BLUE BT-729-D
HOSTAPERM BLUE BT-627-D
HOSTAPERM BLUE A4R
HOSTAPERM BLUE BT-617-D
HOSTAPERM BLUE B2G
HOSTAPERM BLUE B2G-L
HOSTAPERM GREEN GNX
HOSTAPERM BROWN HFR 01

3 PIGMENT PREPARATIONS

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 the Colanyl 100 range are dispersion paints and renderings/plaster based on aqueous polymer dispersions. They are also compatible with other binder systems, e.g. water-based industrial paints, but the maximum dosage level and compatibility of the binder-

free Colanyl 100 has to be checked in the customer paint system itself. By using Colanyl 100 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Colanyl 100 pigment preparations are miscible in all proportions with each other. By adding Colanyl Extender MS 530, the color strength of the Colanyl 100 can be adjusted.

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER	GLYCOL
			g/cm ³	%	%	%	%
YELLOW 10G 131	Yellow 3	11710	1.21	48	56	24	20
YELLOW 5GX 131	Yellow 74	11741	1.15	46	54	26	20
YELLOW FGL 132	Yellow 97	11767	1.13	38	52	30	18
YELLOW H3G 131	Yellow 154	11781	1.15	30	40	40	20
YELLOW 2GXD 130	Yellow 74	11741	1.19	48	57	18	25
YELLOW G 132	Yellow 1	11680	1.18	50	56	24	20
YELLOW HR 131	Yellow 83	21108	1.15	35	55	30	15
YELLOW HRD 131	Yellow 83	21108	1.20	50	58	27	15
RED GG 131	Orange 5	12075	1.20	45	56	24	20
RED FRLL 131	Red 9	12460	1.18	48	54	26	20
SCARLET GO 130	Red 168	59300	1.22	35	51	29	20
RED FGRG 130	Red 112	12370	1.19	47	53	21	26
RED FGR 131	Red 112	12370	1.18	45	53	28	19
CARMINE FB 130	Red 5	12490	1.15	40	51	29	20
RED E3B 130	Violet 19	73900	1.13	32	47	28	25
PINK E 130	Red 122	73915	1.12	20	36	44	20
VIOLET RL 131	Violet 23	51319	1.13	30	45	37	18
BLUE A2R 131	Blue 15:1	74160	1.20	40	51	31	18
BLUE B2G 131	Blue 15:3	74160	1.26	47	54	26	20
GREEN GG 131	Green 7	74260	1.36	50	59	26	15
BLACK PR 130	Black 7	77266	1.18	30	38	37	25
BLACK N 131	Black 7	77266	1.27	42	49	31	20

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

LITERATURE

Pattern card PI 2020 E
 »Colanyl 100 – Pigment preparations«,
 Flyer PI 2021 E
 »Colanyl 100 – Pigment preparations«

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER	GLYCOL
			g/cm ³	%	%	%	%
OXIDE YELLOW BV 100	Yellow 184	771740	2.21	65	72	18	10
OXIDE YELLOW CR 130	Brown 24	77310	2.17	66	80	5	15
OXIDE YELLOW R 132	Yellow 42	77492	1.98	66	73	9	18
OXIDE RED G 130	Red 101	77491	2.19	65	71	11	18
OXIDE RED B 131	Red 101	77491	2.32	72	77	8	14
OXIDE BLUE COR 100	Blue 28	77346	2.01	60	67	15	18
OXIDE GREEN CO 131	Green 50	77377	2.49	75	78	12	10
OXIDE GREEN G 131	Green 17	77288	2.58	75	80	10	10
OXIDE OLIVE GS 130	Yellow 42	77492	1.76	64	72	11	17
	Black 11	77499					
OXIDE BLACK B 100	Black 11	77499	1.86	50	62	18	20
WHITE R 130	White 6	77891	2.15	70	77	4	19

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 and VOC-low decorative paints¹. The main application fields of the 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 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

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm ³	%	%	%
YELLOW 5GX 500	Yellow 74	11741	1.14	40	58	42
YELLOW FGL 500	Yellow 97	11767	1.10	38	65	35
YELLOW H3G 500	Yellow 154	11781	1.13	30	47	53
YELLOW 2GXD 500	Yellow 74	11741	1.18	41	61	39
YELLOW G 500	Yellow 1	11680	1.18	50	64	36
YELLOW HRD 500	Yellow 83	21108	1.20	50	69	31
RED GG 500	Orange 5	12075	1.19	45	67	33
SCARLET GO 530	Red 168	59300	1.25	36	62	38
RED D3GD 500	Red 254	56110	1.24	50	66	34
RED HF3S 500	Red 188	12467	1.18	40	60	40
RED FGRD 500	Red 112	12370	1.17	45	61	39
RED FGR 530	Red 112	12370	1.19	47	70	30
RED E3B 500	Violet 19	73900	1.14	30	59	41
PINK E-WD 530	Red 122	73915	1.16	32	53	47
PINK E 531	Red 122	73915	1.12	20	51	49
VIOLET RL 530	Violet 23	51319	1.15	30	63	37
BLUE A2R 500	Blue 15:1	74160	1.22	40	62	38
BLUE B2G 500	Blue 15:3	74160	1.24	45	61	39
GREEN GG 500	Green 7	74260	1.35	50	71	29
BLACK N 500	Black 7	77266	1.27	43	63	37

¹ As defined in EU directive 2004/42/EC Annex II, phase II. Colanyl Blue B2G 500 and Colanyl Violet RL 500 include up to approx. 2200 ppm VOC (Volatile Organic Compounds). All other Colanyl 500 preparations include up to approx. 800 ppm VOC (VOC-test method DIN EN ISO 17895).

VOC standards and regulations vary by location. Product specific VOC information is available to customers upon request. It is the responsibility of the coatings manufacturer to determine standard compliance and appropriate claim for their products.

with each other. By adding Colanyl Extender MS 530, the color strength of Colanyl 500 can be adjusted. The data presented in this table is meant to provide a general indication and does not represent quality-relevant average values. The quality of our preparations is defined by the specifications of the coloristical and rheological values. The Colour Index data relate to the basic pigments.

LITERATURE

Pattern card PI 2011 E

»Colanyl 500, Hostatint 500 - For decorative paints and coatings«,
Flyer PI 2005 E

»Colanyl 500, Hostatint 500 - For decorative paints and coatings«

COLANYL	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm ³	%	%	%
OXIDE YELLOW BV 530	Yellow 184	771740	2.22	65	80	20
OXIDE YELLOW CR 530	Brown 24	77310	2.18	65	78	22
OXIDE YELLOW R 531	Yellow 42	77492	1.99	64	78	22
OXIDE YELLOW 2R 500	Yellow 42	77492	1.90	60	79	21
OXIDE RED G 530	Red 101	77491	2.14	65	79	21
OXIDE RED B 530	Red 101	77491	2.34	70	83	17
OXIDE BLUE COR 530	Blue 28	77346	2.00	62	79	21
OXIDE BLUE UM 500	Blue 29	77007	1.40	50	72	28
OXIDE TURQUOISE CO 500	Blue 36	77343	1.60	52	73	27
OXIDE GREEN G 530	Green 17	77288	2.55	75	87	13
OXIDE GREEN CO 500	Green 50	77377	2.34	70	84	16
OXIDE BLACK B 531	Black 11	77499	1.79	53	71	29
OXIDE BLACK IR 500	Green 17	77288	2.38	70	84	16
WHITE R 500	White 6	77891	2.05	65	82	18
EXTENDER MS 530	-	-	1.70	60	78	22

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 coatings¹. They are also compatible with some other binder systems, e.g. water-based or solvent-based industrial paints, but the maximum dosage level and compatibility of the binder-free

Hostatint 500 has to be checked in the customer paint system itself. By using Hostatint 500 pigment preparations in automatic and/or manual dispensers, excellent accuracy and reliability when poured or pumped have been observed. Furthermore, Hostatint 500 pigment preparations are miscible in all proportions with each other. By adding Hostatint Extender MS 500 or Hostatint Extender CC 500, the color strength of Hostatint 500 can be adjusted.

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm ³	%	%	%
YELLOW 12G 500	Yellow 3	11710	1.20	40	63	37
YELLOW 4GX 530	Yellow 73	11738	1.16	38	63	37
YELLOW FGL 531	Yellow 97	11767	1.16	40	61	39
YELLOW 2GXD 530	Yellow 74	11741	1.15	40	65	35
YELLOW HR 531	Yellow 83	21108	1.10	15	57	43
ORANGE GR 500	Orange 43	71105	1.11	22	54	46
ORANGE HLD 530	Orange 36	11780	1.12	20	60	40
SCARLET GO 530	Red 168	59300	1.24	35	61	39
RED FGR 530	Red 112	12370	1.13	21	51	49
RED D3GD 530	Red 254	56110	1.14	30	61	39
PINK E 530	Red 122	73915	1.10	20	44	56
VIOLET RL 531	Violet 23	51319	1.08	20	59	41
BLUE B2G 530	Blue 15:3	74160	1.15	30	57	43
GREEN GG 530	Green 7	74260	1.16	30	61	39
BLACK GR 531	Black 7	77266	1.16	20	54	46

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.

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

LITERATURE

Pattern card PI 2011 E
 »Colanyl 500, Hostatint 500 - For decorative paints and coatings«,
 Flyer PI 2005 E
 »Colanyl 500, Hostatint 500 - For decorative paints and coatings«

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	WATER
			g/cm ³	%	%	%
OXIDE YELLOW BV 530	Yellow 184	771740	2.07	65	85	15
OXIDE YELLOW R 531	Yellow 42	77492	1.91	60	81	19
OXIDE ORANGE Z 500	Yellow 216	n.a.	1.61	60	82	18
OXIDE RED B 531	Red 101	77491	2.22	68	85	15
UMBER KT 531	Mix	-	1.78	65	96	4
OXIDE BLUE COR 530	Blue 28	77346	2.03	65	85	15
OXIDE GREEN CO 531	Green 50	77377	2.14	65	89	11
OXIDE GREEN G 531	Green 17	77288	2.16	60	79	21
OXIDE BLACK B 531	Black 33	77537	2.30	70	92	8
WHITE R 530	White 6	77891	2.14	70	89	11
EXTENDER MS 530	-	-	1.60	55	78	22
EXTENDER CC 530	-	-	1.31	30	61	39

3.4

HOSTATINT™ A 100

The Hostatint A 100 pastes are solvent-containing pigment preparations based on a carrier resin (aldehyde resin) that was developed specially for industrial paint applications. The pastes are produced within narrow tolerances of shade and color strength allowing highly consistent paint production path with manual and automatic dispensers.

The solvent and additives are carefully selected to avoid hazardous labelling 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	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	SOLVENT CONTENT
			g/cm ³	%	%	%
YELLOW A-F2G 100	Yellow 194	11785	1.19	36	59	41
YELLOW A-H3G 100	Yellow 154	11781	1.22	42	65	35
YELLOW A-HRD 100	Yellow 83	21108	1.16	28	52	48
ORANGE A-HLD 100	Orange 36	11780	1.26	43	60	40
RED A-D3GD 130	Red 254	56110	1.23	33	62	38
PINK A-E 130	Red 122	73915	1.14	19	45	55
RED VIOLET A-ER 130	Violet 19	73900	1.12	19	50	50
VIOLET A-RL 100	Violet 23	51319	1.12	12	40	60
BLUE A-BG 100	Blue 15:3	74160	1.17	24	60	40
GREEN A-GNX 130	Green 7	74260	1.22	23	50	40
BLACK A-N 100	Black 7	77266	1.17	21	55	45

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

LITERATURE

Pattern card PI 2008 E
 »Hostatint A 100 – Pigment preparations«
 Flyer PI 2004 E
 »Hostatint A 100 – Pigment preparations«
 Flyer PI 2007 E
 »Highly transparent pigment preparations for solvent-based paint systems – Hostatint A 100-ST«

HOSTATINT	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	SOLIDS CONTENT	SOLVENT CONTENT
			g/cm ³	%	%	%
OXIDE YELLOW A-BV 100	Yellow 184	771740	2.25	64	80	20
OXIDE YELLOW A-CR 100	Brown 24	77310	2.08	64	82	18
OXIDE YELLOW A-R 100	Yellow 42	77492	1.71	50	68	32
OXIDE RED A-B 100	Red 101	77491	2.06	62	78	22
TRANSOXIDE YELLOW A-2R 130	Yellow 42	77492	1.51	39	66	34
TRANSOXIDE RED A-G 130	Red 101	77491	1.57	40	67	33
WHITE A-R 100	White 6	77891	1.90	59	79	21
YELLOW A-N4G 100-ST	Yellow 150	12764	1.17	15	38	62
RED A-P2Y 100-ST	Red 179	71130	1.14	15	30	70
PINK A-EB 100-ST	Red 122	73915	1.13	7	27	73
BLUE A-BTR 100-ST	Blue 15:1	74160	1.12	7	41	59
BLUE A-BTG 100-ST	Blue 15:4	74160	1.14	15	36	64
GREEN A-GMB 100-ST	Mixture	n.a.	1.15	15	37	63
GREEN A-GMY 100-ST	Mixture	n.a.	1.16	15	37	63
BLACK A-NB 100-ST	Black 7	77266	1.20	25	45	55
BLACK A-NY 100-ST	Black 7	77266	1.18	15	30	70

3.5

HOSTATINT™ UV

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.

LITERATURE

Flyer DP 6223 E
» Colorants for radiation curing - Hostatint UV pigment preparations «

HOSTATINT UV	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	BINDER
			%	%
YELLOW H3G	Yellow 154	11781	42	24
YELLOW GR	Yellow 13	21100	15	18
RED D3GD	Red 254	56110	35	29
RED F5RK	Red 170	12475	18	10
PINK E	Red 122	73915	19	20
VIOLET RL	Violet 23	51319	15	25
BLUE BG	Blue 15:3	74160	24	25
GREEN GNX	Green 7	74560	24	25

HOSTATINT UV	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	PIGMENT	BINDER
			%	%
WHITE R	White 6	77891	62	19
BLACK N 30	Black 7	77266	21	40
OXIDE YELLOW BV	Yellow 184	771740	35	32
OXIDE YELLOW R	Yellow 42	77492	43	20
TRANS OXIDE YELLOW 2R	Yellow 42	77492	64	17
OXIDE RED B	Red 101	77491	50	25
TRANS OXIDE RED 2B	Red 101	77491	62	20

3.6

HOSTAFINE®1

Hostafine is a range of aqueous, binder-free pigment preparations based on non-ionic wettig 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 trans-

parency 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 finliner and roller-tip pens.

HOSTAFINE	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	GLYCOL
			g/cm ³	%	%
YELLOW GR	Yellow 13	21100	1.14	40	10
YELLOW HR	Yellow 83	11741	1.15	35	15
RED HF3S	Red 188	12467	1.18	40	10
RED FGR	Red 112	12370	1.15	45	10
RED P2GL	Red 179	71130	1.10	25	10
RED F5RK	Red 170	12475	1.10	35	10
RUBINE F6B	Red 184	12467	1.10	40	10
MAGENTA E	Red 122	73915	1.09	20	10
VIOLET RL	Violet 23	51319	1.15	30	10
BLUE B2G	Blue 15:3	74160	1.37	40	10
GREEN GN	Green 7	74260	1.32	40	10
BLACK T 30	Black 7	77266	1.21	30	10
BLACK TS 30	Black 7	77266	1.21	33	-

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

LITERATURE

Pattern card DP 7075 E
 »Hostafine pigment preparations – Woodstain Shade Library«
 Flyer DP 6187 E »Hostafine – Pigment preparations for next generation of water-based wood coatings«

HOSTAFINE	COLOUR INDEX PIGMENT	COLOUR INDEX NO.	DENSITY	PIGMENT	GLYCOL
			g/cm ³	%	%
TRANSOXIDE YELLOW R 30¹	Yellow 42	77492	1.38	35	–
TRANSOXIDE RED B 30¹	Red 101	77491	1.38	35	–

¹ Hostafine Transoxide Yellow R and Hostafine Transoxide Red B 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 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.

3.7

RENOL® HW 30

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

LITERATURE

Pattern card PI 2012 E
 »Renol HW 30 – Pigment preparations«

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

4 DYES

4.1 SAVINYL® DYES

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.

SAVINYL	COLOUR INDEX	AUTOMOTIVE PAINTS				INDUSTRIAL PAINTS					DECORATIVE PAINTS	
		OEM paints	Refinish paints	Solvent-based	Water-base coat	Solvent-based	Water-based	Amine-curing epoxy	Coil coating	Powder coatings	Solvent-based	Water-based
YELLOW 2GLS 01	S. Y. 79					●				○		
YELLOW RLS	S. Y. 83:1					●				○		
YELLOW RLSN	S. Y. 8 3					○*				○		
YELLOW 2RLS	S. Y. 62					●				○		
ORANGE RLS	S. O. 41					●				○		
ORANGE RLSE	S. O. 62					○*				○		
FIRE RED 3GLS	S. R. 124					○*				○		
RED 3BLS	S. R. 91					●				○		
PINK 6BLS	S. R. 127					○*				○		
DARK VIOLET R	A. V. 66					●				○		
BLUE RS	S. B. 45					○*				○		
BLUE GLS	S. B. 44					●				○		
GREEN 2GLS 01	Mixture					○*				○		
BROWN GLS	Mixture					●				○		
BLACK RLSN 01	Mixture					●				○		

● recommended

○ limited suitability

* limited fastness to overpainting

5 OVERVIEW ARRANGED BY COLOUR INDEX DATA (GENERIC NAME)

5.1 YELLOW

The following overview lists our pigments, pigment preparations and dyes already published in the Colour Index, arranged by their generic name. If only the generic name but not the C.I. No. is given, the product was published without details of its constitution. We would point out that identical generic names simply indicate identical chemical composition. The application properties of

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

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT YELLOW 1	11680		10	COLANYL YELLOW G 132	14
				COLANYL YELLOW G 500	16
PIGMENT YELLOW 3	11710	HANSA YELLOW 10G	10	COLANYL YELLOW 10G 131	14
		HANSA YELLOW 10G 41 GRAN.	10	HOSTATINT YELLOW 12G 500	18
PIGMENT YELLOW 12	21090	PERMANENT YELLOW DHG	9		
PIGMENT YELLOW 13	21100	PERMANENT YELLOW GR	9	HOSTATINT UV YELLOW GR	22
				HOSTAFINE YELLOW GR	24
PIGMENT YELLOW 17	21105	PERMANENT YELLOW GG 02	9	RENOL YELLOW GG-HW 30	26
PIGMENT YELLOW 42	77492			COLANYL OXIDE YELLOW R 132	15
				COLANYL OXIDE OLIVE GS 130	15
				COLANYL OXIDE YELLOW R 531	17
				HOSTAFINE TRANSOXIDE YELLOW R 30	25
				HOSTATINT OXIDE YELLOW A-R 100	21
				HOSTATINT UV OXIDE YELLOW R	23
				HOSTATINT UV TRANSOXIDE YELLOW 2R	23
				HOSTATINT TRANSOXIDE YELLOW A-2R 130	21
				HOSTATINT OXIDE YELLOW R 531	19
PIGMENT YELLOW 73	11738	HANSA BRILLIANT YELLOW 4GX	10	HOSTATINT YELLOW 4GX 530	18
PIGMENT YELLOW 74	11741	HANSA BRILLIANT YELLOW 5GX	10	COLANYL YELLOW 5GX 131	14
		HANSA BRILLIANT YELLOW 2GX 70	10	COLANYL YELLOW 2GXD 130	14
		HANSA BRILLIANT YELLOW 2GX 70-S	10	COLANYL YELLOW 5GX 500	16
		HANSA BRILLIANT YELLOW 2GX 70-S-EDW	10	COLANYL YELLOW 2GXD 500	16
				HOSTATINT YELLOW 2GXD 530	18

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT YELLOW 83	21108	NOVOPERM YELLOW HR	6	COLANYL YELLOW HR 131	14
		NOVOPERM YELLOW HR 02	7	COLANYL YELLOW HRD 131	14
		NOVOPERM YELLOW HR 70	6	COLANYL YELLOW HRD 500	16
		NOVOPERM YELLOW HR 70-EDS	6	HOSTAFINE YELLOW HR	24
				HOSTATINT YELLOW HR 531	18
		HOSTATINT YELLOW A-HRD 100	20		
				RENOL YELLOW HR-HW 30	26
PIGMENT YELLOW 97	11767	NOVOPERM YELLOW FGL	6	COLANYL YELLOW FGL 132	14
				COLANYL YELLOW FGL 500	16
				HOSTATINT YELLOW FGL 531	18
PIGMENT YELLOW 120	11783	NOVOPERM YELLOW H2G	6		
PIGMENT YELLOW 139	56298	GRAPHTOL YELLOW H2R	12		
		NOVOPERM YELLOW M2R 70	6		
		NOVOPERM YELLOW P-M3R	7		
PIGMENT YELLOW 150	12764			HOSTATINT YELLOW A-N4G 100-ST	21
PIGMENT YELLOW 151	13980	HOSTAPERM YELLOW H4G	4		
		HOSTAPERM YELLOW H4G-EDS	4		
		HOSTAPERM YELLOW H4G 70	4		
PIGMENT YELLOW 154	11781	HOSTAPERM YELLOW H3G	4	COLANYL YELLOW H3G 131	14
		HOSTAPERM YELLOW H3G-EDW	4	HOSTATINT YELLOW A-H3G 100	20
				COLANYL YELLOW H3G 500	16
				HOSTATINT UV YELLOW H3G	22
PIGMENT YELLOW 155	200310	GRAPHTOL YELLOW 3GP 01	12		
		NOVOPERM YELLOW 4G 01	7		
		NOVOPERM YELLOW 5GD 71	6		
PIGMENT YELLOW 175	11784	HOSTAPERM YELLOW H6G	4		
PIGMENT YELLOW 180	21290	PV FAST YELLOW HG	11		
PIGMENT YELLOW 181	11777	PV FAST YELLOW H3R	11		
PIGMENT YELLOW 184	771740	HOSTAPERM OXIDE YELLOW BV 01	4	COLANYL OXIDE YELLOW BV 100	15
		HOSTAPERM OXIDE YELLOW BV 02	4	COLANYL OXIDE YELLOW BV 530	17
				HOSTATINT OXIDE YELLOW BV 530	19
				HOSTATINT OXIDE YELLOW A-BV 100	21
				HOSTATINT UV OXIDE YELLOW BV	23
PIGMENT YELLOW 191	18795	PV FAST YELLOW HGR	11		
PIGMENT YELLOW 194	11785	NOVOPERM YELLOW F2G	6	HOSTATINT YELLOW A-F2G 100	20
		NOVOPERM YELLOW F2G-EDS	6		
PIGMENT YELLOW 213	117875	HOSTAPERM YELLOW H5G	4		
PIGMENT YELLOW 216	-			HOSTATINT OXIDE ORANGE Z 500	19

5.2 ORANGE

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT ORANGE 5	12075	HANSA RED GG	10	COLANYL RED GG 131	14
				OLANYL RED GG 500	16
PIGMENT ORANGE 13	21110	PERMANENT ORANGE G	9		
PIGMENT ORANGE 34	21115	PERMANENT ORANGE RL 01	9	RENOL ORANGE RL-HW 30	26
		PERMANENT ORANGE RL 70	8		
PIGMENT ORANGE 36	11780	NOVOPERM ORANGE HL	6	HOSTATINT ORANGE HLD 530	18
		NOVOPERM ORANGE HL 70	6	HOSTATINT ORANGE A-HLD 100	20
		NOVOPERM ORANGE HL 70-EDW	6		
		NOVOPERM ORANGE HL 70-NF	6		
PIGMENT ORANGE 38	12367	NOVOPERM RED HFG	7		
PIGMENT ORANGE 43	71105	HOSTAPERM ORANGE GR	4	HOSTATINT ORANGE GR 500	18
PIGMENT ORANGE 62	11775	NOVOPERM ORANGE H5G 70	6		
PIGMENT ORANGE 72	-	PV FAST ORANGE H4GL 01	11		

5.3 RED

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT RED 3	12120	HANSA SCARLET RNC	10		
		HANSA RED 3B	10		
PIGMENT RED 5	12490			COLANYL CARMINE FB 130	14
PIGMENT RED 9	12460			COLANYL RED FRLL 131	14
PIGMENT RED 12	12385	PERMANENT BORDEAUX FRR	8		
PIGMENT RED 14	12380	PERMANENT BORDEAUX FGR	8		
PIGMENT RED 48:3	15865:3	GRAPHTOL FIRE RED 3RLP	12		
PIGMENT RED 53:1	15585:1	GRAPHTOL RED LC	12		
		PERMANENT LAKE RED LCLL	9		

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT RED 57:1	15850:1	GRAPHTOL RUBINE L4B	12		
PIGMENT RED 101	77491			COLANYL OXIDE RED B 131	15
				COLANYL OXIDE RED G 130	15
				COLANYL OXIDE RED B 530	17
				COLANYL OXIDE RED G 530	17
				HOSTAFINE TRANSOXIDE RED B 30	25
				HOSTATINT OXIDE RED B 531	19
				HOSTATINT OXIDE RED A-B 100	21
				HOSTATINT TRANSOXIDE RED A-G 130	21
				HOSTATINT UV OXIDE RED B	23
				HOSTATINT UV TRANSOXIDE RED 2B	23
PIGMENT RED 112	12370	PERMANENT RED FGR	8	COLANYL RED FGRG 130	14
		PERMANENT RED FGR 02	8	COLANYL RED FGR 131	14
		PERMANENT RED FGR 70	8	COLANYL RED FGR 530	16
				COLANYL RED FGRD 500	16
				HOSTAFINE RED FGR	24
				HOSTATINT RED FGR 530	18
PIGMENT RED 122	73915	HOSTAPERM PINK E	5	COLANYL PINK E 130	14
		HOSTAPERM PINK E-EDS	5	COLANYL PINK E 531	16
		HOSTAPERM PINK E-EDW	5	COLANYL PINK E-WD 530	16
		HOSTAPERM PINK E 02-EDW	5	HOSTAFINE MAGENTA E	24
		HOSTAPERM PINK E TRANSP. 01	5	HOSTATINT PINK E 530	18
		HOSTAPERM PINK EB TRANSP.	5	HOSTATINT PINK A-E 130	20
		HOSTAPERM PINK E-WD	5	HOSTATINT PINK A-EB 100-ST	21
				HOSTATINT UV PINK E	22
PIGMENT RED 146	12485	PERMANENT CARMINE FBB 02	9	RENOL CARMINE FBB-HW 30	26
PIGMENT RED 149	71137	PV FAST RED B	11		
PIGMENT RED 168	59300	HOSTAPERM SCARLET GO	4	COLANYL SCARLET GO 130	14
		HOSTAPERM SCARLET GO-EDW	4	COLANYL SCARLET GO 530	16
		HOSTAPERM SCARLET GO TRANSP.	4	HOSTATINT SCARLET GO 530	18
PIGMENT RED 170	12475	NOVOPERM RED F2RK 70	6	HOSTAFINE RED F5RK	24
		NOVOPERM RED F3RK 70	6	HOSTATINT UV RED F5RK	22
		NOVOPERM RED F5RK	6	RENOL RED F5RK-HW 30	26
PIGMENT RED 179	71130	HOSTAPERM RED P2GL-WD	4	HOSTAFINE RED P2GL	24
				HOSTATINT RED A-P2Y 100-ST	21
PIGMENT RED 184	12467			HOSTAFINE RUBINE F6B	24
PIGMENT RED 185	12516	NOVOPERM CARMINE HF4C	7		
PIGMENT RED 188	12467	NOVOPERM RED HF3S	6	COLANYL RED HF3S 500	16
		NOVOPERM RED HF3S 70	6	HOSTAFINE RED HF3S	24
PIGMENT RED 208	12514			RENOL RED HF2B-HW 30	26
PIGMENT RED 254	56110	HOSTAPERM RED D2G 70	4	COLANYL RED D3GD 500	16
		HOSTAPERM RED D3G 70	4	HOSTATINT RED D3GD 530	18
		HOSTAPERM RED D3G 70-EDW	4	HOSTATINT RED A-D3GD 130	20
				HOSTATINT UV RED D3GD	22

5.4 VIOLET

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT VIOLET 19	73900	HOSTAPERM RED E4G	4	COLANYL-RED E3B 130	14
		HOSTAPERM RED E2B 70	4	COLANYL RED E3B 500	16
		HOSTAPERM RED E3B	4	HOSTATINT RED VIOLET A-ER 130	20
		HOSTAPERM RED E5B 02	4		
		HOSTAPERM RED VIOLET ER 02	5		
PIGMENT VIOLET 23	51319	HOSTAPERM VIOLET BL 01	5	COLANYL VIOLET RL 131	14
		HOSTAPERM VIOLET RL SPECIAL	5	COLANYL VIOLET RL 530	16
		HOSTAPERM VIOLET RL-NF	5	HOSTAFINE VIOLET RL	24
				HOSTATINT VIOLET RL 531	18
				HOSTATINT VIOLET A-RL 100	20
				HOSTATINT UV VIOLET RL	22
PIGMENT VIOLET 32	12517	NOVOPERM BORDEAUX HF3R	7		

5.5 BLUE

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT BLUE 15:1	74160	HOSTAPERM BLUE A4R	5	COLANYL BLUE A2R 131	14
		HOSTAPERM BLUE BT-728-D	5	COLANYL BLUE A2R 500	16
		HOSTAPERM BLUE BT-729-D	5	HOSTATINT BLUE A-BTR 100-ST	21
		PV FAST BLUE A2R	11		
PIGMENT BLUE 15:2	74160	HOSTAPERM BLUE BT-627-D	5		
PIGMENT BLUE 15:3	74160	HOSTAPERM BLUE B2G	5	COLANYL BLUE B2G 131	14
		HOSTAPERM BLUE B2G-EDS	5	COLANYL BLUE B2G 500	16
		HOSTAPERM BLUE B2G-L	5	HOSTAFINE BLUE B2G	24
		PV FAST BLUE BG	11	HOSTATINT BLUE B2G 530	18
				HOSTATINT BLUE A-BG 100	20
				HOSTATINT UV BLUE BG	22
				RENOL BLUE B2G-HW 30	26
PIGMENT BLUE 15:4	74160	HOSTAPERM BLUE BT-617-D	5	HOSTATINT BLUE A-BTG 100-ST	21
PIGMENT BLUE 28	77346			COLANYL OXIDE BLUE COR 100	15
				COLANYL OXIDE BLUE COR 530	17
				HOSTATINT OXIDE BLUE COR 530	19
PIGMENT BLUE 29	77007			COLANYL OXIDE BLUE UM 500	17
PIGMENT BLUE 36	77343			COLANYL OXIDE TURQUOISE CO 500	17

5.6 GREEN

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT GREEN 7	74260	HOSTAPERM GREEN GNX	5	COLANYL GREEN GG 131	14
		HOSTAPERM GREEN GNX-EDS	5	COLANYL GREEN GG 500	16
				HOSTAFINE GREEN GN	24
				HOSTATINT GREEN GG 530	18
				HOSTATINT GREEN A-GNX 130	20
				HOSTATINT UV GREEN GNX	22
PIGMENT GREEN 17	77288			RENOL GREEN GG-HW 30	26
				COLANYL OXIDE GREEN G 131	15
				COLANYL OXIDE GREEN G 530	17
				HOSTATINT OXIDE GREEN G 531	19
				COLANYL OXIDE BLACK IR 500	17
PIGMENT GREEN 50	77377			COLANYL OXIDE GREEN CO 131	15
				COLANYL OXIDE GREEN CO 500	17
				HOSTATINT OXIDE GREEN CO 531	19

5.7 OTHERS

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES PIGMENTS	PAGE	STANDARD RANGES PIGMENT PREPARATIONS	PAGE
PIGMENT BROWN 24	77310			COLANYL OXIDE YELLOW CR 130	15
				COLANYL OXIDE YELLOW CR 530	17
				HOSTATINT OXIDE YELLOW A-CR 100	21
PIGMENT BROWN 25	12510	HOSTAPERM BROWN HFR 01	5	RENOL BROWN HFR-HW 30	26
PIGMENT BLACK 7	77266			COLANYL BLACK PR 130	14
				COLANYL BLACK N 131	14
				COLANYL BLACK N 500	16
				HOSTAFINE BLACK T 30	24
				HOSTAFINE BLACK TS 30	24
				HOSTATINT BLACK GR 531	18
				HOSTATINT BLACK A-N 100	20
				HOSTATINT BLACK A-NB 100-ST	21
				HOSTATINT UV BLACK N 30	23
				RENOL BLACK R-HW 30	26
PIGMENT BLACK 11	77499			COLANYL OXIDE OLIVE GS 130	15
				COLANYL OXIDE BLACK B 100	15
				COLANYL OXIDE BLACK B 531	17
PIGMENT BLACK 33	77537			HOSTATINT OXIDE BLACK B 531	19
PIGMENT WHITE 6	77891			COLANYL WHITE R 130	15
				COLANYL WHITE R 500	17
				HOSTATINT WHITE R 530	19
				HOSTATINT WHITE A-R 100	21
				HOSTATINT UV WHITE R	23
				RENOL WHITE T-HW 30	26

5.8 DYES

COLOUR INDEX GENERIC NAME	COLOUR INDEX NO.	STANDARD RANGES DYES	PAGE
ACID VIOLET 66	-	SAVINYL DARK VIOLET R	27
SOLVENT YELLOW 62	-	SAVINYL YELLOW 2RLS	27
SOLVENT YELLOW 79	-	SAVINYL YELLOW 2GLS 01	27
SOLVENT YELLOW 83	-	SAVINYL YELLOW RLSN	27
SOLVENT YELLOW 83:1	-	SAVINYL YELLOW RLS	27
SOLVENT ORANGE 41	-	SAVINYL ORANGE RLS	27
SOLVENT ORANGE 62	12714	SAVINYL ORANGE RLSE	27
SOLVENT RED 91	-	SAVINYL RED 3BLS	27
SOLVENT RED 124	-	SAVINYL FIRE RED 3GLS	27
SOLVENT RED 127	-	SAVINYL PINK 6BLS	27
SOLVENT BLUE 44	-	SAVINYL BLUE GLS	27
SOLVENT BLUE 45	-	SAVINYL BLUE RS	27

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