SUDARSHAN
Outshine. Outdo.

PIGMENTS COATINGS
HOSTAPERM®[1], NOVOPERM®, PERMANENT, HANSA® PIGMENTS FOR THE PAINT INDUSTRY

PIGMENTS COATINGS
PIGMENTS FOR THE PAINT INDUSTRY

INTRODUCTION

This pattern card illustrates our pigments for the paint industry. It is divided up into the Hostaperm®[1], Novoperm®, Permanent and Hansa® ranges. The individual pattern pages can be opened like a book. The illustrations were prepared by special lacquer printing process and therefore shade deviations are possible. The prints cannot be used for tests of pigment properties and colorimetric comparison.

SHADE DEPTHS

VT = Mass tone
TT = Deep shade
I = $^1/_3$ Standard depth (1 : x TiO_2)
II = $^1/_{25}$ Standard depth (1 : x TiO_2)
x = The proportion of TiO_2 necessary to bring 1 part colored pigment to the required shade depth. These data must be regarded as guide values, which can be influenced by the binder used and the conditions of dispersion

DISPERSIBILITY

1 = High dispersing effort
2 = Moderate dispersion effort
3 = Low dispersing effort
≈ = Dissolver dispersible
sb = solvent-based
wb = water-based

FASTNESS TO WEATHERING

Assessment – after 12 months outdoor weathering – against the 5-step »Change of shade« Grey Scale (DIN EN 20105-A02). No data means that the pigment is not recommended in the quoted concentration.

BLOOMING

●	High risk of pigment bloom
◐	Risk of pigment bloom, particularly in low concentrations
○	No pigment bloom observed

HEAT STABILITY

The values quoted indicate up to what temperature the pigments do not significantly alter. These are guide values which can be influenced by the binder used and the period of exposure to high temperature.

OVERSPRAY FASTNESS

Assessment of bleeding into a white stoving enamel for 30 min at 120 °C and 160 °C against the 5-step »Bleeding« Grey Scale (DIN EN 20105-A03). No data means that the pigment is not recommended for stoving enamels because of the high risk of bleeding.

RESISTANCE TO ACIDS, ALKALIS

Assessment against the 5-step »Change of shade« Grey Scale (DIN EN 20105-A02).

SOLVENT FASTNESS

Assessment against the 5-step »Bleeding« Grey Scale (DIN EN 20105-A03).

DENSITY

Quoted in g/cm³

SPECIFIC SURFACE

Quoted in m²/g

ABBREVIATIONS AND EXPLANATIONS

LL	Air drying paint
EL	Stoving enamel
d	Becomes darker
MEK	Methyl Ethyl Ketone
Spec. surface	Specific surface
**	Not measurable

HOSTAPERM

	TT	I	II	PRODUCT NAME Colour Index Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
							EL		°C	120 °C	160 °C					g/cm³	m²/g
				OXIDE YELLOW BV 01 Pigment Yellow 184 Product number: 229419													
				VT	2		4–5	O	200	5	5	5	5	5	5	6.0	7.1
				I = 1 : 0.84 TiO_2			4–5					5	5	5	5		
				II = 1 : 14.8 TiO_2			4–5										
				OXIDE YELLOW BV 02 Pigment Yellow 184 Product number: 270141													
				VT	2		4–5	O	200	5	5	5	5	5	5	6.0	7.0
				I = 1 : 0.92 TiO_2			4–5					5	5	5	5		
				II = 1 : 16.2 TiO_2			4–5										
				YELLOW H6G Pigment Yellow 175 Product number: 105095													
				VT	2		5	O	180	5	4	5	4–5	4–5	5	1.52	28
				I = 1 : 2 TiO_2			4–5					5	4	3–4	5		
				II = 1 : 33 TiO_2			4										
*				**YELLOW H4G** Pigment Yellow 151 Product number: 116674													
				VT	2		5	O	200	5	5	5	4–5	4–5	4–5	1.55	23
				I = 1 : 2.9 TiO_2			4–5					3	4	4–5	5		
				II = 1 : 42 TiO_2			4										
*				**YELLOW H4G 70** Pigment Yellow 151 Product number: 213632													
				VT	2		5	O	200	5	5	5	5	5	5	1.57	20
				I = 1 : 3.5 TiO_2			4–5					3	5	5	5		
				II = 1 : 48 TiO_2			4										
*				**YELLOW H3G** Pigment Yellow 154 Product number: 104899													
				VT	2		5	O	160	5	3–4	5	4–5	4–5	5	1.59	19
				I = 1 : 2 TiO_2			5					5	3–4	3–4	5		
				II = 1 : 29 TiO_2			5										

** Illustrated in mass tone*

HOSTAPERM

TT	I	II	PRODUCT NAME / Colour Index / Product number			Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
								EL		°C	120 °C	160 °C					g/cm³	m²/g
			YELLOW H3G 02															
			Pigment Yellow 154															
			Product number: 271059															
			VT			3	≋	5	○	160	5	3–4	5	4–5	4–5	5	1.54	22
			I =	1 : 2	TiO_2		wb	5					5	3–4	3–4	5		
			II =	1 : 29	TiO_2			5										
			ORANGE GR															
			Pigment Orange 43															
			Product number: 104963															
			VT			2		3d	○	200	5	5	5	5	4–5	4–5	1.58	38
			I =	1 : 3.4	TiO_2			3d					5	4–5	4–5	5		
			II =	1 : 38	TiO_2			3–4d										
			SCARLET GO															
			Pigment Red 168															
			Product number: 107272															
			VT			2		5	○	180	4–5	4	5	5	4–5	4–5	2.08	33
			I =	1 : 2.7	TiO_2			5					5	4–5	5	5		
			II =	1 : 35	TiO_2			5										
*			**RED D3G 70-CN**															
			Pigment Red 254															
			Product number: 210275															
			VT			2		4–5	○	200	5	5	5	4–5	5	5	1.60	27
			I =	1 : 5.5	TiO_2			4					5	4–5	4–5	5		
			II =	1 : 84	TiO_2			4										
*			**RED D2G 71**															
			Pigment Red 254															
			Product number: 322068															
			VT			2		4–5	○	200	5	5	5	4–5	5	5	1.55	16
			I =	1 : 4.5	TiO_2			4–5					5	4–5	4–5	5		
			II =	1 : 55	TiO_2			4										

** Illustrated in mass tone*

HOSTAPERM

TT	I	II	PRODUCT NAME / Colour Index / Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
						EL		°C	120 °C	160 °C					g/cm³	m²/g
			RED D2G 72 Pigment Red 254 Product number: 322069													
			VT	2		4–5	O	200	5	5	5	4–5	5	5	1.55	16
			I = 1 : 4.5 TiO_2			4–5					5	4–5	4–5	5		
			II = 1 : 55 TiO_2			4										
			RED P2GL-WD Pigment Red 179 Product number: 108159													
			VT	1		4–5d	O	200	5	5	5	5	5	5	1.56	**
			I = 1 : 9.1 TiO_2			5					5	5	5	5		
			II = 1 : 89 TiO_2			4–5										
*			**RED E2B 70** Pigment Violet 19 Product number: 105136													
			VT	2		4d	O	200	5	5	5	5	5	5	1.46	31
			I = 1 : 3.3 TiO_2			4–5					5	4–5	5	5		
			II = 1 : 46 TiO_2			4–5										
*			**RED E3B** Pigment Violet 19 Product number: 104947													
			VT	2		4d	O	200	5	5	5	5	5	5	1.48	41
			I = 1 : 3.5 TiO_2			4–5					5	4	5	5		
			II = 1 : 57 TiO_2			4–5										
			RED E5B 02 Pigment Violet 19 Product number: 104947													
			VT	2		3–4d	O	200	5	5	5	4–5	5	5	1.47	90
			I = 1 : 4.1 TiO_2			3–4d					5	4	5	5		
			II = 1 : 61 TiO_2			4										
			PINK E Pigment Red 122 Product number: 104952													
			VT	2		4d	O	200	5	5	5	4–5	4–5	5	1.45	77
			I = 1 : 5 TiO_2			4–5					5	4–5	4–5	5		
			II = 1 : 71 TiO_2			4–5										

** Illustrated in mass tone*

HOSTAPERM

TT	I	II	PRODUCT NAME / Colour Index / Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
						EL		°C	120 °C	160 °C					g/cm³	m²/g
			PINK E-WD Pigment Red 122 Product number: 122089													
			VT	2		4d	○	200	5	5	5	4–5	4–5	5	1.44	76
			I = 1 : 4.7 TiO_2			4–5					5	4–5	4–5	5		
			II = 1 : 7.2 TiO_2			4–5										
			PINK E-WD 01 Pigment Red 122 Product number: 245708													
			VT	3	≋	4d	○	200	5	5	5	4–5	4–5	5	1.43	63
			I = 1 : 5 TiO_2		wb	4–5					5	4–5	4–5	5		
			II = 1 : 7.1 TiO_2			4–5										
			PINK EB TRANSP. Pigment Red 122 Product number: 105009													
			VT	1		4d	○	200	5	5	5	4–5	5	5	1.47	80
			I = 1 : 5.5 TiO_2			4–5					5	4–5	4–5	5		
			II = 1 : 72 TiO_2			4–5										
			RED VIOLET ER 02 Pigment Violet 19 Product number: 104954													
			VT	2		4d	○	200	5	5	5	4–5	5	5	1.49	83
			I = 1 : 6.2 TiO_2			4					5	3–4	4–5	5		
			II = 1 : 73 TiO_2			4										
			VIOLET BL 01 Pigment Violet 23 Product number: 197163													
			VT	2		5	○	160	5	5	5	4	4–5	4	1.50	103
			I = 1 : 19.6 TiO_2			4					5	4–5	4	5		
			II = 1 : 263 TiO_2			4										
			VIOLET RL SPEC. 01 Pigment Violet 23 Product number: 303120													
			VT	2		5	○	160	5	5	5	5	5	4–5	1.49	80
			I = 1 : 19.1 TiO_2			4					5	4–5	4	5		
			II = 1 : 225 TiO_2			4										

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TT	I	II	PRODUCT NAME / Colour Index / Product number			Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
								EL		°C	120 °C	160 °C					g/cm³	m²/g
			BLUE A4R															
			Pigment Blue 15 : 1															
			Product number: 153605															
			VT			2		5	O	200	5	5	5	5	5	4	1.61	65
			I =	1 : 12.6	TiO_2			5					5	4–5	4–5	4–5		
			II =	1 : 178	TiO_2			5										
			BLUE BT-728-D															
			Pigment Blue 15 : 1															
			Product number: 111221															
			VT			2		5	O	200	5	5	5	5	5	5	1.68	86
			I =	1 : 11	TiO_2			5					5	5	5	5		
			II =	1 : 170	TiO_2			5										
			BLUE BT-729-D															
			Pigment Blue 15 : 1															
			Product number: 107188															
			VT			1		5	O	200	5	5	5	5	5	5	1.65	74
			I =	1 : 10.3	TiO_2			5					5	5	5	5		
			II =	1 : 144	TiO_2			5										
			BLUE BT-627-D															
			Pigment Blue 15 : 2															
			Product number: 118350															
			VT			2		5	O	200	5	5	5	4–5	4–5	4	1.55	57
			I =	1 : 13.4	TiO_2			5					5	4–5	4–5	5		
			II =	1 : 78	TiO_2			5										
			BLUE B2G 03															
			Pigment Blue 15 : 3															
			Product number: 225226															
			VT			3	≋	5	O	200	5	5	5	5	5	5	1.59	52
			I =	1 : 8.4	TiO_2		sb	5					5	4–5	5	5		
			II =	1 : 132	TiO_2			5										

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TT	I	II	PRODUCT NAME Colour Index Product number			Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid	Butanol	Butyl acetate	Xylene	Density	Spec. surface
													Alkali	Butyl glycol	MEK	White spirit		
								EL		°C	120 °C	160 °C					g/cm³	m²/g
			BLUE BT-617-D Pigment Blue 15 : 4 Product number: 118349															
			VT			2		5	○	200	5	5	5	4	5	5	1.62	52
			I =	1 : 9.2	TiO_2			5					5	4–5	5	5		
			II =	1 : 154	TiO_2			5										
			GREEN GNX Pigment Green 7 Product number: 105775															
			VT			2		5	○	200	5	5	5	5	5	5	2.05	40
			I =	1 : 5.3	TiO_2			5					5	4	5	5		
			II =	1 : 86	TiO_2			5										
			GREEN GNX 01 Pigment Green 7 Product number: 240262															
			VT			3	≋	5	○	200	5	5	5	5	5	5	2.09	40
			I =	1 : 5.3	TiO_2		sb	5					5	4	5	5		
			II =	1 : 86	TiO_2			5										
			BROWN HFR 01 Pigment Brown 25 Product number: 104981															
			VT			2		5	○	200	5	5	5	4–5	4	4–5	1.52	90
			I =	1 : 6.3	TiO_2			4–5					5	4	3–4	4–5		
			II =	1 : 66	TiO_2			4										

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TT	I	II	PRODUCT NAME / Colour Index / Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
						EL		°C	120 °C	160 °C					g/cm³	m²/g
			YELLOW FGL Pigment Yellow 97 Product number: 105031													
			VT	2		4d	O	180	5	4–5	5	4–5	2–3	4	1.39	14
			I = 1 : 3.4 TiO_2			4					5	4–5	2–3	5		
			II = 1 : 51 TiO_2			3										
			YELLOW F2G Pigment Yellow 194 Product number: 107442													
			VT	2		4–5	O	200	5	4	5	4	3–4	3	1.46	19
			I = 1 : 4.7 TiO_2			4					5	4	3	4–5		
			II = 1 : 68 TiO_2			3–4										
*			**YELLOW 5GD 71** Pigment Yellow 155 Product number: 187854													
			VT	2		4–5	O	180	5	5	5	5	4–5	4–5	1.44	34
			I = 1 : 4.9 TiO_2			4					5	4–5	4–5	5		
			II = 1 : 75 TiO_2			4										
			YELLOW HR Pigment Yellow 83 Product number: 105774													
			VT	2		3d	O	200	5	5	5	4–5	4	3–4	1.43	27
			I = 1 : 9.7 TiO_2			2					5	4–5	3	5		
			II = 1 : 137 TiO_2			1–2										
*			**YELLOW HR 70** Pigment Yellow 83 Product number: 116673													
			VT	3		4d	O	200	5	4–5	5	4–5	3–4	3–4	1.51	21
			I = 1 : 3.9 TiO_2			4					5	4–5	3–4	5		
			II = 1 : 59 TiO_2			3										

** Illustrated in mass tone*

NOVOPERM

	TT	I	II	PRODUCT NAME / Colour Index / Product number			Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
									EL		°C	120 °C	160 °C					g/cm³	m²/g
*				**YELLOW HR 72**															
				Pigment Yellow 83															
				Product number: 233288															
				VT			3	≈	4d	O	200	5	4–5	5	4–5	3–4	3–4	1.50	21
				I =	1 : 3.9	TiO_2		sb	4					5	4–5	3–4	5		
				II =	1 : 59	TiO_2			3										
*				**YELLOW M2R 70**															
				Pigment Yellow 139															
				Product number: 105125															
				VT			3		5d	O	200	5	5	5	5	5	5	1.75	20
				I =	1 : 3.6	TiO_2			5					5	5	5	5		
				II =	1 : 48	TiO_2			4										
*				**ORANGE H5G 70**															
				Pigment Orange 62															
				Product number: 105064															
				VT			2		5	O	180	5	4	5	4–5	4–5	5	1.52	10
				I =	1 : 1.5	TiO_2			4–5					5	4	4	5		
				II =	1 : 18	TiO_2			4										
				ORANGE HL															
				Pigment Orange 36															
				Product number: 104984															
				VT			2		4–5	O	160	5	5	5	4–5	4–5	4–5	1.64	31
				I =	1 : 3.9	TiO_2			4					5	4–5	4–5	5		
				II =	1 : 36	TiO_2			3										
*				**ORANGE HL 70**															
				Pigment Orange 36															
				Product number: 104950															
				VT			2		5	O	160	5	4–5	5	4–5	4–5	4–5	1.62	14
				I =	1 : 2.2	TiO_2			4–5					5	4–5	4–5	5		
				II =	1 : 21	TiO_2			4										
*				**ORANGE HL 71**															
				Pigment Orange 36															
				Product number: 259606															
				VT			3	≈	5	O	160	5	4–5	5	4–5	4–5	4–5	1.63	17
				I =	1 : 2.2	TiO_2		wb	4–5					5	4–5	4–5	5		
				II =	1 : 21	TiO_2			4										

** Illustrated in mass tone*

NOVOPERM

	PRODUCT NAME Colour Index Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Alkali / Acid	Butyl glycol / Butanol	MEK / Butyl acetate	White spirit / Xylene	Density	Spec. surface
TT				EL		°C	120 °C	160 °C					g/cm³	m²/g
	RED HF3S Pigment Red 188 Product number: 202382													
	VT	2		4d	○	200	5	5	5	4–5	4	4–5	1.47	22
	I = 1 : 2.9 TiO_2			3					5	4–5	4	4–5		
	II = 1 : 42 TiO_2			3										
*	**RED HF3S 70** Pigment Red 188 Product number: 182673													
	VT	2		4–5d	○	200	5	5	5	5	4–5	4–5	1.49	13
	I = 1 : 2.5 TiO_2			4					5	4	4–5	5		
	II = 1 : 31 TiO_2			3–4										
*	**RED F2RK 70** Pigment Red 170 Product number: 104971													
	VT	2		4d	○	160	4	3	5	4–5	4–5	4–5	1.40	19
	I = 1 : 5 TiO_2			3					5	4–5	4	5		
	II = 1 : 62 TiO_2			2–3										
*	**RED F3RK 70** Pigment Red 170 Product number: 105528													
	VT	2		3–4d	○	160	4	3	5	4–5	4–5	4–5	1.44	19
	I = 1 : 4.5 TiO_2			2–3					5	4–5	4	5		
	II = 1 : 57 TiO_2			2										
	RED F5RK Pigment Red 170 Product number: 216357													
	VT	2		3d	○	160	3	2	5	4	4	4–5	1.40	25
	I = 1 : 6.6 TiO_2			2					5	4	3	5		
	II = 1 : 86 TiO_2			2										
	RED HF4B Pigment Red 187 Product number: 105007													
	VT	2		4	○	200	5	5	5	5	5	5	1.45	66
	I = 1 : 5.5 TiO_2			3–4					5	4–5	4–5	5		
	II = 1 : 63 TiO_2			3–4										

** Illustrated in mass tone*

PERMANENT

TT	I	II	PRODUCT NAME Colour Index Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
						EL		°C	120 °C	160 °C					g/cm³	m²/g
*			**ORANGE RL 70** Pigment Orange 34 Product number: 182674													
			VT	2		3–4d	○	200	4–5	4	5	5	4	3	1.43	30
			I = 1 : 4.2 TiO_2			2					5	4–5	3–4	4–5		
			II = 1 : 54 TiO_2			1–2										
			RED FGR Pigment Red 112 Product number: 105526													
			VT	2		4–5	◐	180	1	1	5	3–4	2–3	2–3	1.49	25
			I = 1 : 6.1 TiO_2			3–4					5	3	2–3	4		
			II = 1 : 60 TiO_2			3										
			RED FGR 02 Pigment Red 112 Product number: 107456													
			VT	2		4–5	◐	180	1	1	5	3	2	2	1.49	31
			I = 1 : 6.7 TiO_2			3–4					5	3	2	3–4		
			II = 1 : 83 TiO_2			3										
*			**RED FGR 70** Pigment Red 112 Product number: 107972													
			VT	3		4–5	◐	180	1	1	5	3–4	2–3	2–3	1.48	11
			I = 1 : 4.4 TiO_2			3–4					5	3	2–3	4		
			II = 1 : 53 TiO_2			3										
			BORDEAUX FRR Pigment Red 12 Product number: 104887													
			VT	2		2–3d	●	160	1	1	5	3–4	3	2–3	1.37	25
			I = 1 : 8.6 TiO_2			–					5	4	2–3	4–5		
			II = 1 : 86 TiO_2			–										

** Illustrated in mass tone*

HANSA

TT	I	II	PRODUCT NAME / Colour Index / Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness 120 °C	Overspray fastness 160 °C	Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
						LL		°C	120 °C	160 °C					g/cm³	m²/g
			YELLOW 10G Pigment Yellow 3 Product number: 104885													
			VT	2		4–5	●	140	–	–	5	2	2	2	1.58	11
			I = 1 : 2 TiO_2			4					5	3	2	3		
			II = 1 : 26 TiO_2			3										
			YELLOW 10G 41 GRAN. Pigment Yellow 3 Product number: 104915													
			VT	3		4	●	140	–	–	5	2	2	2	1.57	12
			I = 1 : 3.2 TiO_2			3–4					5	3	2	3		
			II = 1 : 43 TiO_2			2–3										
			BRILLIANT YELLOW 5GX Pigment Yellow 74 Product number: 159753													
			VT	2		4d	●	160	–	–	5	3-4	2-3	2	1.41	34
			I = 1 : 12.4 TiO_2			2–3					5	3	2-3	3-4		
			II = 1 : 131 TiO_2			2										
			BRILLIANT YELLOW 4GX Pigment Yellow 73 Product number: 104968													
			VT	2		3–4d	●	140	–	–	5	3-4	2-3	2-3	1.48	21
			I = 1 : 7.1 TiO_2			2					5	3	2-3	3-4		
			II = 1 : 72 TiO_2			1–2										
			YELLOW G 02 Pigment Yellow 1 Product number: 107257													
			VT	2		3–4d	●	140	–	–	5	3	2-3	2-3	1.40	25
			I = 1 : 5.8 TiO_2			2					5	3	2-3	3-4		
			II = 1 : 69 TiO_2			1–2										
*			**BRILLIANT YELLOW 2GX 70-S** Pigment Yellow 74 Product number: 167583													
			VT	3		4–5	●	140	–	–	5	4-5	3	3	1.43	16
			I = 1 : 4.8 TiO_2			3–4					5	4	3	4-5		
			II = 1 : 53 TiO_2			3										

** Illustrated in mass tone*

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	PRODUCT NAME Colour Index Product number	Dispersibility	Dissolver	Fastness to weathering	Blooming	Heat stability	Overspray fastness		Acid / Alkali	Butanol / Butyl glycol	Butyl acetate / MEK	Xylene / White spirit	Density	Spec. surface
TT / I / II				LL		°C	120 °C	160 °C					g/cm³	m²/g
*	**BRILLIANT YELLOW 2GX 72-S** Pigment Yellow 74 Product number: 271730													
	VT	3	≋	4–5	●	140	–	–	5	4–5	3	3	1.39	21
	I = 1 : 4.8 TiO_2		wb	3–4					5	4	3	4–5		
	II = 1 : 53 TiO_2			3										
*	**BRILLIANT YELLOW 2GX 70** Pigment Yellow 74 Product number: 104970													
	VT	3		4–5	●	140	–	–	5	3–4	3	2–3	1.43	16
	I = 1 : 4.6 TiO_2			3–4					5	3–4	3	4		
	II = 1 : 51 TiO_2			3										
*	**RED GG** Pigment Orange 5 Product number: 107255													
	VT	2		3d	●	160	–	–	5	3	2–3	2	1.55	12
	I = 1 : 3.2 TiO_2			2					5	3–4	2	4		
	II = 1 : 29 TiO_2			2										
*	**SCARLET RNC** Pigment Red 3 Product number: 200064													
	VT	2		4	●	180	–	–	5	3	2	2	1.42	17
	I = 1 : 4.8 TiO_2			1–2					5	3–4	2	2–3		
	II = 1 : 50 TiO_2			1										
*	**RED 3B** – Product number: 201224													
	VT	2		3–4	●	180	–	–	5	3	2	2	1.42	9
	I = 1 : 3.2 TiO_2			1–2					5	3–4	2	2–3		
	II = 1 : 33 TiO_2			1										

** Illustrated in mass tone*

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