

mifar

colour made easy



PRODUCT RANGE

COLOUR MADE EASY is our commitment to making life easy for our partners. We are a reliable, solid and qualified company.

We support our partners throughout every stage of the development of their products, to give them a real productive and commercial advantage for their success on the market.

Mifar is member of



works in compliance with



with products





COLOUR AND EFFICIENCY. We are a market leader in terms of production volumes and sales. We distribute our products in 52 countries, in addition to Italy. For over 40 years we have been specialising in the production, research and development of solid predispersed pigment preparations of the highest quality. These so-called “chips” are used at an industrial level by manufacturers of inks, paints, varnishes, enamels, coatings, compostable food packaging and cosmetics. Since 1999, we have been part of the Tennants Group, a multinational manufacturer and supplier of chemical products.

Our offices are located in the heart of Milan, while the production facility covers an industrial area of 10,000 square metres in Rescaldina, in the north-west of the province of Milan. It is the most advanced chips plant in Europe due to the state-of-the-art machinery and equipment at our disposal and the production capacity of solid mono-pigmented dispersions, which has more than doubled in recent years. The plant operates under safe HSE conditions, with BAT installations and authorisations, a 50-tonne nitrocellulose storage bunker, sprinkler systems and water reserve, as well as an afterburner to reduce local emissions.

COLOUR AND CHEMISTRY. The perfect duo that represents our product throughout all stages of its life cycle. We are aware that the chemical industry, of which Mifar is a part, offers innovative and indispensable solutions for the development of modern society. With a forward-looking corporate strategy, today more than ever we aim to create products that increasingly reflect modern lifestyles, with priority given to protecting the environment and developing sustainable solutions.

Under a circular economy, we select raw materials of superior quality, offer great production flexibility, guarantee continuous technical support for the best use and maximum yield of our products, and apply careful distribution to facilitate reduction and disposal of waste. Our company’s processes as well as the products we put on the market are made in compliance with the current Italian and international regulations.

COLOUR AND INNOVATION. The Mifar laboratory is one of the strengths of our company.

10,000 inbound and outbound product tests are carried out each year to support our partners in creating tailor-made formulations. The Research & Development activity has evolved over time, becoming more and more significant and advanced. In recent years, we have invested heavily in the research and development of cutting-edge technologies dedicated to macromolecules for the creation of compostable materials. We believe this is an important direction for the ecological transition of our industry and to contribute to maintaining the ecological balance of the planet.

Our chips are made with the finest raw materials available on the market, which is the result of constant research into new materials and careful analysis of their performance. Research activities allow us to observe the interactions between new raw materials and our production methods. Numerous control tests are carried out both on the raw materials and on the prototypes of new products to ensure that we offer our customers a final product that meets their expectations. To guarantee the most reliable quality standards, we carry out an average of ten Quality Control Tests on each individual product.

We are a customer-oriented company with a strong commitment to satisfy our partners: the requests for samples, development of new projects and the constant and unavoidable attention to product quality follow paths that have been certified at a national and international level.



PRODUCT RANGE. With our wide range of products, in different types of resin, we offer the best possible performance in terms of colour fastness, transparency, gloss, rheology and dispersion. Mifar's predispersions do not require grinding steps after dispersion, this allows small and large ink manufacturers to produce batches of various sizes.

	APPLICATION	RESIN
NC-ALCOHOL SOLUBLE	Flexographic and rotogravure inks for paper, aluminium and different types of plastic films. Wood lacquers and coatings, cosmetic application (i.e. nail lacquers, etc.)	Nitrocellulose Alcohol Soluble
NCE-ESTER SOLUBLE	Paints, inks of different chemical composition, car repair, wood lacquers and leather finishes.	Nitrocellulose Ester Soluble
VD-VINYL	Flexographic and rotogravure inks for aluminium, PVC, PET films for lamination and other plastic films.	Hydroxyl Modified Vinyl Chloride/ Vinyl Acetate Copolymer
VI-VINYL	Inks and overlacquers for vinyl substrates, strippable coatings, masonry and metal coatings, PVC covering, plastic clothes, finished PU split leathers and finished PU synthetic material.	Vinyl Chloride/Vinyl Acetate Copolymer
VB-POLYVINYL BUTYRAL	Flexographic, gravure screen-printing and transfer inks, suitable for food packaging. White board marker inks.	Polyvinyl Butyrals
PA-POLYAMIDE	Flexographic and rotogravure inks for treated polyethylene printing and other non-absorbing surface.	Polyamide Resin
EC-ETHYL CELLULOSE	Flexographic inks for packaging and in both publication and packaging gravure inks. Special wood lacquers application.	Ethylcellulose Polymers
AP-CAP	Flexographic and rotogravure inks for paper, aluminium and different types of plastic films, overprint varnishes, plastic coatings.	Cellulose Acetate Propionate
CB-CAB	Flexographic, gravure, screen-printing inks, wood finishes, automotive topcoats, rubber and plastic coatings, textile, leather and nail care.	Cellulose Acetate Butyrate
AW-ACRYLIC WATER BASED	Overprint water-based varnishes and inks. Water-borne wood lacquers and coatings.	Acrylic Polymer
WB	Flexographic, gravure screen-printing and transfer inks, suitable for food packaging. White board marker inks.	Polyvinyl Butyrals

CHIPS APPLICATION FIELDS.



		PRINTING	MARKER	NAIL LACQUER	FINISHING	WOOD LACQUER	LEATHER FINISHING	AUTOMOTIVE	INKJET	UV CURABLE
DISPERCEL	NC	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Suitable	Suggested	Not Suitable	Not Suitable
DISPERCEL	NCE	Not Suitable	Not Suitable	Not Suitable	Suitable	Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERVYN	VD	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERVYN	VI	Suitable	Not Suitable	Not Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Suitable
DISPERVYN	VB	Suitable	Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERMID	PA	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERTHYL	EC	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERCAP	AP	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Suitable	Suitable	Not Suitable	Not Suitable
DISPERCAB	CB	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Suitable	Suitable	Not Suitable	Not Suitable
DISPERCRYL	AW	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERVYN	WB	Suitable	Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable

HIGH PERFORMANCE PIGMENT PREPARATION

DISPERCOS		Not Suitable	Not Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERLIT	AW	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERLIT	EC	Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable
DISPERLIT	VK	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Suitable	Suitable	Suitable
COMPOSTABLE	NC	Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable	Not Suitable

Suitable

Not Suitable

Suggested





















SOLUBILITY AND PROCESS METHOD. Chips must be added in the smallest volume possible to the vehicle – solvent or varnish - in order to ensure the best dispersion both in terms of result and processing time.

The most effective dispersion methods recommended are:

1. In the disperser, weigh out the minimum amount of vehicle necessary to disperse the chips. Add the chips at regular intervals during agitation, making sure that they enter the vortex generated by the rotating blade and do not deposit on the bottom. When adding the chips, make sure to maintain a constant dispersion rate as the viscosity of the vehicle increases. Leave the mixture under agitation for about one to two hours. After this time and after ensuring that the chips have completely dispersed, add the remaining liquids. Continue dispersing for a further 10 or 20 minutes, until a homogeneous product is obtained.
2. Follow the instructions above to make pastes with a high concentration of chips. The paste can be stored in such a way that allows the necessary amount to be taken out and brought to the desired concentration at the time of use.

If acrylic-based chips are used in an aqueous environment, make sure that the pH of the vehicle is sufficient to achieve homogeneous dispersion.

MIFAST DISPERCEL NC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					REMARKS		
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²						
								Alkali	Acids	Solvents	Soap		Butter	
	W.6	TITANIUM DIOXIDE	WHITE	NC 8000/80	75%	17%	8%	8	5	5	5	5	5	
	W.6	TITANIUM DIOXIDE	WHITE	NC 8000/84	75%	19%	6%	8	5	5	5	5	5	
	Y.13	DISAZO	YELLOW	NC 2012/40	45%	43%	12%	5	5	5	4	5	4	High Transparency
	Y.13	DISAZO	YELLOW	NC 2413/65	60%	33%	7%	5	5	5	4	5	4	
	Y.13	DISAZO	YELLOW	NC 2512/70	65%	31%	4%	5	5	5	4	5	4	High Transparency
	Y.13	DISAZO	YELLOW	NC 2413/70	70%	26%	4%	5	5	5	4	5	4	Low Viscosity
	Y.14	DISAZO	YELLOW	NC 2011/40	45%	43%	12%	4	5	4	4-5	5	5	Semi Transparent
	Y.14	DISAZO	YELLOW	NC 2011/70	65%	31%	4%	4	5	4	4-5	5	5	High Transparency
	Y.17	DISAZO	YELLOW	NC 2010/40	45%	43%	12%	6	5	5	4-5	5	5	
	Y.17	DISAZO	YELLOW	NC 2010/70	65%	31%	4%	6	5	5	4-5	5	5	
	Y.74	MONOAZO	YELLOW	NC 2032/40	50%	38%	12%	6	5	5	4	5	5	
	Y.74	MONOAZO	YELLOW	NC 2032/OP	45%	43%	12%	6	5	5	2-3	5	3	Opaque
	Y.83	DISAZO	YELLOW	NC 2023/40	50%	38%	12%	6-7	5	5	5	5	5	
	Y.83	DISAZO	YELLOW	NC 2040/70	70%	25%	5%	6-7	5	5	5	5	5	High Transparency
	Y.111	ARYLAMIDE	YELLOW	NC 2020/40	45%	43%	12%	5-6	5	5	5	5	5	
	Y.155	DISAZO	YELLOW	NC 2035/60	60%	30%	10%	7	5	5	4-5	5	5	
	O.5	DINITRANILINE ORANGE	ORANGE	NC 4010/40	50%	36%	14%	6-7	5	5	4	5	3	
	O.5	DINITRANILINE ORANGE	ORANGE	NC 4010/70	70%	20%	10%	6-7	5	5	4	5	3	

Dispersions and colours can be supplied either from standard ranges or, through development and application testing, as bespoke products designed for individual customers.

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2 – Measured on scale of 1 – 5 (5 best)

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MIFAST DISPERCEL NC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					REMARKS		
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²						
								Alkali	Acids	Solvents	Soap		Butter	
	O.5	DINITRANILINE ORANGE	ORANGE	NC 4010/71	70%	20%	10%	6-7	5	5	4	5	3	High Transparency
	O.34	PYRAZOLONE ORANGE	ORANGE	NC 4017/40	50%	35%	15%	7	4	5	3	5	5	
	O.34	PYRAZOLONE ORANGE	ORANGE	NC 4017/55	55%	30%	15%	7	4	5	3	5	5	
	O.34	PYRAZOLONE ORANGE	ORANGE	NC 4017/70	65%	29%	6%	7	4	5	3	5	5	
	O.38	NAPHTHOL AS	ORANGE	NC 4038/71	70%	30%	0%	6	5	5	5	5	5	
	R.2	NAPHTHOL RED	RED	NC 5002/40	50%	35%	15%	7-8	3	5	2	-	-	
	R.3	MONOAZO	RED	NC 5055/OP	50%	35%	15%	7-8	4-5	4-5	3-4	-	-	
	R.4	B-NAPHTHOL	RED	NC 5056/40	45%	40%	15%	4	5	5	4	5	3-4	
	R.48:1	2B TONER CALCIUM	RED	NC 5011/40	50%	37%	13%	4-5	4	4	4	4	5	
	R.48:1	2B TONER CALCIUM	RED	NC 5011/70	65%	32%	3%	4-5	4	4	4	4	5	
	R.48:2	2B TONER CALCIUM	RED	NC 5012/40	50%	37%	13%	5	4-5	4	5	3	5	
	R.48:2	2B TONER CALCIUM	RED	NC 5022/40	50%	37%	13%	5	4-5	4	5	3	5	
	R.48:2	2B TONER CALCIUM	RED	NC 5012/70	65%	32%	3%	5	4-5	4	5	3	5	
	R.48:4	2B TONERMANGANESE	RED	NC 5015/40	50%	38%	12%	7	4	4-5	5	3-4	4-5	
	R.53:1	LAKE RED	RED	NC 5018/40	55%	32%	13%	3	3	3	4-5	2	3	
	R.53:1	LAKE RED	RED	NC 5531/70	65%	24%	11%	3	3	3	4-5	2	3	
	R.57:1	4B TONER CALCIUM	RED	NC5023/09	50%	34%	16%	3	3	3	4-5	2	3	
	R.57:1	4B TONER CALCIUM	RED	NC 5023/40	50%	35%	15%	3	3	3	4-5	2	3	

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MIFAST DISPERCEL NC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					REMARKS		
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²						
								Alkali	Acids	Solvents	Soap		Butter	
	R.57:1	4B TONER CALCIUM	RED	NC 5023/60	55%	32%	13%	3	3	3	4-5	2	3	
	R.57:1	4B TONER CALCIUM	RED	NC 5023/70	65%	31%	4%	3	3	3	4-5	2	3	
	R.112	NAPHTHOL AS	RED	NC 5112/40	45%	43%	12%	5-6	5	5	4-5	5	3	
	R.81	RHODAMINE	RED	NC 7071/40	40%	35%	25%	3-4	4-5	5	3-4	2	4	
	R.122	QUINACRIDONE	PINK	NC 5005/40	50%	36%	14%	7	5	5	5	5	5	
	R.146	NAPHTHOL AS	RED	NC 5033/40	50%	40%	10%	5-6	5	5	4-5	4	4-5	
	R.146	NAPHTHOL AS	RED	NC 5033/71	65%	32%	3%	5-6	5	5	4-5	4	4-5	
	R.147	NAPHTHOL AS	RED	NC 5034/40	55%	34%	11%	5	5	5	4	5	5	
	R.166	AZO CONDENSATION	RED	NC 5048/40	50%	35%	15%	7-8	5	5	5	5	5	Semi Trasparent
	R.170	NAPHTHOL AS	RED	NC 5170/60	55%	33%	12%	5	5	5	4-5	-	-	
	R.176	BENZIMIDAZOLONE	RED	NC 5176/60	55%	35%	10%	6-7	5	5	5	5	5	
	R.184	NAPHTHOL AS	RED	NC 5184/40	45%	43%	12%	5-6	5	5	4-5	5	3-4	
	R.184	NAPHTHOL AS	RED	NC 5184/61	60%	28%	12%	5-6	5	5	4-5	5	3-4	
	R.185	BENZIMIDAZOLONE	RED	NC 5185/60	60%	35%	5%	7-8	5	5	5	5	5	
	V.3	METHYL VIOLET SALT	VIOLET	NC 7075/40	45%	36%	19%	5	5	4	4	3	4	
	V.3	METHYL VIOLET SALT	VIOLET	NC 7080/40	50%	31%	19%	5	5	4	4	3	4	
	V.23	DIOXAZINE VIOLET	VIOLET	NC 7010/40	50%	34%	16%	8	5	5	5	4	5	
	V.23	DIOXAZINE VIOLET	VIOLET	NC 7010/52	50%	34%	16%	8	5	5	5	4	5	

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MIFAST DISPERCEL NC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					REMARKS	
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap		Butter
	V.23	DIOXAZINE VIOLET	VIOLET	NC 7010/54	50%	34%	16%	8	5	5	5	4	5
	V.23	DIOXAZINE VIOLET	VIOLET	NC 7010/70	65%	30%	5%	8	5	5	5	4	5
	V.23	DIOXAZINE VIOLET	VIOLET	NC 7023/54	50%	34%	16%	8	5	5	5	4	5
	V.32	AZO VIOLET	VIOLET	NC 5054/40	50%	34%	16%	6	5	5	5	5	5
	B.15:3	PHHALO	BLUE	NC 6010/40	50%	36%	14%	8	5	5	5	5	5
	B.15:3	PHHALO	BLUE	NC 6010/60	55%	32%	13%	8	5	5	5	5	5
	B.15:3	PHHALO	BLUE	NC 6010/70	65%	31%	4%	8	5	5	5	5	5
	B.15:4	PHHALO	BLUE	NC 6014/40	55%	35%	10%	8	5	5	5	5	5
	B.15:4	PHHALO	BLUE	NC 6030/40	45%	33%	22%	8	5	5	5	5	5
	B.15:4	PHHALO	BLUE	NC 6030/70	65%	31%	4%	8	5	5	5	5	5
	B.16	PHHALOCYANINE	BLUE	NC 6016/70	65%	31%	4%	8	5	5	5	5	5
	B.27	MILORI BLUE	BLUE	NC 6013/40	55%	32%	13%	8	5	5	5	5	5
	B.29	ALLUMINOSILICATE	BLUE	NC 6029/OP	60%	30%	10%	7-8	5	2	3	3	3
	G.7	PHHALO	GREEN	NC 9010/40	45%	44%	11%	8	5	5	5	5	5
	G.7	PHHALO	GREEN	NC 9010/70	65%	31%	4%	8	5	5	5	5	5
	BI.7	CARBON BLACK	BLACK	NC 0891/40	45%	40%	15%	8	5	5	5	5	5
	BI.7	CARBON BLACK	BLACK	NC 3000/40	45%	40%	15%	8	5	5	5	5	5
	BI.7	CARBON BLACK	BLACK	NC 3002/40	45%	40%	15%	8	5	5	5	5	5

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MIFAST DISPERCEL NC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					REMARKS	
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap		Butter
■	Bl.7	CARBON BLACK	BLACK	NC 3005/45	45%	38%	17%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3025/50	45%	38%	17%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3025/70	55%	42%	3%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3048/48	45%	40%	15%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3060/40	45%	38%	17%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3060/60	55%	38%	7%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3125/45	45%	38%	17%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3189/48	45%	41%	14%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NC 3804/82	20%	59%	21%	8	5	5	5	5	5

MIFAST DISPERCEL SERIE NCE - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION				STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	% Additives	Lightfastness ¹	Chemical resistance ²					
									Alkali	Acids	Solvents	Soap	Butter	
■	Bl.7	CARBON BLACK	BLACK	NCE 3018/20	20%	57%	21%	2%	8	5	5	5	5	5
■	Bl.7	CARBON BLACK	BLACK	NCE 3189/40	45%	40%	14%	1%	8	5	5	5	5	5

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MIFAST DISPERSVYN VD - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	VD 8000/20	75%	22%	3%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	VD 2012/50	50%	49%	1%	5	5	5	4	5	4
	Y.14	DISAZO	YELLOW	VD 2011/20	55%	43%	2%	4	5	4	4-5	5	5
	Y.17	DISAZO	YELLOW	VD 2010/20	55%	44%	1%	6	5	5	4-5	5	5
	Y.17	DISAZO	YELLOW	VD 2017/10	55%	44%	1%	6	5	5	4-5	5	5
	Y.83	DISAZO	YELLOW	VD 2013/20	50%	47%	3%	6-7	5	5	5	5	5
	Y.83	DISAZO	YELLOW	VD 2013/21	45%	54%	1%	6-7	5	5	5	5	5
	Y.83	DISAZO	YELLOW	VD 2083/10	45%	54%	1%	6-7	5	5	5	5	5
	O.34	PYRAZOLONE	ORANGE	VD 4012/20	55%	44%	1%	7	4	5	3	5	5
	R.48:1	2B TONER BARIUM	RED	VD 5011/20	55%	44%	1%	4	4	4	4	4	5
	R.48:1	2B TONER BARIUM	RED	VD 5481/55	55%	44%	1%	4	4	4	4	4	5
	R.48:2	2B TONER CALCIUM	RED	VD 5012/10	55%	44%	1%	5	4-5	4	5	3	5
	R.48:2	2B TONER CALCIUM	RED	VD 5012/20	55%	44%	1%	5	4-5	4	5	3	5
	R.57:1	4B TONER CALCIUM	RED	VD 5023/20	50%	47%	3%	3	3	3	4-5	2	5
	R.122	QUINACRIDONE	PINK	VD 5005/02	50%	50%	0%	7	5	5	5	5	5
	R.122	QUINACRIDONE	PINK	VD 5005/20	50%	50%	0%	7	5	5	5	5	5
	R.146	NAPHTHOL AS	RED	VD 5033/21	55%	44%	1%	5-6	5	5	4-5	4	4-5
	R.147	NAPHTHOL AS	RED	VD 5034/00	55%	44%	1%	5	5	5	4	5	5

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MIFAST DISPERSVYN VD - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	R.166	AZO CONDENSATION	RED	VD 5048/00	50%	48%	2%	7-8	5	5	5	5	5
	R.210	NAPHTHOL AS	RED	VD 5021/00	55%	45%	0%	7	5	5	4	4	4
	V.23	DIOXAZINE VIOLET	VIOLET	VD 7023/20	55%	43%	2%	8	5	5	5	4	5
	V.32	AZO CONDENSATION	VIOLET	VD 5035/01	55%	43%	2%	6	5	5	5	5	5
	B.15:3	PHHALO	BLUE	VD 6015/20	55%	41%	4%	8	5	5	5	5	5
	G.7	PHHALO	GREEN	VD 9010/20	55%	43%	2%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VD 3000/20	45%	53%	2%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VD 3000/21	45%	51%	4%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VD 3045/10	40%	57%	3%	8	5	5	5	5	5

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MIFAST DISPERVYN VI - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	VI 8000/15	75%	22%	3%	8	5	5	5	5	5
	W.6	TITANIUM DIOXIDE	WHITE	VI 8000/15 M	75%	22%	3%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	VI 2413/15	50%	47%	3%	5	5	5	4	5	4
	Y.14	DISAZO	YELLOW	VI 2011/15	50%	46%	4%	4	5	4	4-5	5	5
	Y.17	DISAZO	YELLOW	VI 2010/15	50%	47%	3%	6	5	5	4-5	5	5
	Y.17	DISAZO	YELLOW	VI 2010/15 M	50%	47%	3%	6	5	5	4-5	5	5
	Y.17	DISAZO	YELLOW	VI 2017/15	50%	47%	3%	6	5	5	4-5	5	5
	Y.83	DISAZO	YELLOW	VI 2013/15	50%	47%	3%	6-7	5	5	5	5	5
	Y.83	DISAZO	YELLOW	VI 2013/15 M	50%	47%	3%	6-7	5	5	5	5	5
	Y.83	DISAZO	YELLOW	VI 2083/70 M	50%	47%	3%	6-7	5	5	5	5	5
	Y.155	DISAZO	YELLOW	VI 2155/15	50%	49%	1%	7	5	5	4-5	5	5
	Y.42	IRON OXIDE HYDRATE	YELLOW	VI 2442/15	70%	27%	3%	8	5	5	5	5	5
	O.5	DINITRANILINE	ORANGE	VI 4005/15	55%	43%	2%	6-7	5	5	4	5	3
	O.5	DINITRANILINE	ORANGE	VI 4010/15 M	50%	46%	4%	6-7	5	5	4	5	3
	O.34	PYRAZOLONE	ORANGE	VI 4012/15	50%	46%	4%	7	4	5	3	5	5
	O.38	NAPHTHOL AS	ORANGE	VI 4038/15	50%	50%	0%	6	5	5	5	5	5
	R.48:2	2B TONER CALCIUM	RED	VI 5012/15	50%	47%	3%	5	4-5	4	5	3	5
	R.48:4	2B TONER MANGANESE	RED	VI 5015/15 M	50%	47%	3%	7	4	4-5	5	3-4	4-5
	R.53:1	LAKE RED	RED	VI 5010/15	50%	48%	2%	3	3	3	4-5	2	3
	R.57:1	2B TONER CALCIUM	RED	VI 5023/15	50%	48%	2%	3	3	3	4-5	2	3
	R.57:1	2B TONER CALCIUM	RED	VI 5023/15 M	50%	48%	2%	3	3	3	4-5	2	3
	R.122	QUINACRIDONE	PINK	VI 5005/15	50%	47%	3%	7	5	5	5	5	5

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


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MIFAST DISPERVYN VI - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	R.122	QUINACRIDONE	PINK	VI 5005/15 M	50%	47%	3%	7	5	5	5	5	5
	R.144	AZO CONDENSATION	RED	VI 5044/15	50%	48%	2%	7-8	5	5	5	5	5
	R.146	NAPHTHOL AS	RED	VI 5033/25	55%	42%	3%	5-6	5	5	4-5	4	4-5
	R.147	NAPHTHOL AS	RED	VI 5034/15	50%	48%	2%	5	5	5	4	5	5
	R.166	AZO CONDENSATION	RED	VI 5048/15	45%	53%	2%	7-8	5	5	5	5	5
	R.166	AZO CONDENSATION	RED	VI 5048/15 M	45%	53%	2%	7-8	5	5	5	5	5
	R.166	AZO CONDENSATION	RED	VI 5066/15	45%	53%	2%	7-8	5	5	5	5	5
	R.170	NAPHTHOL AS	RED	VI 5170/15	50%	46%	4%	5	5	5	4-5	-	-
	R.184	NAPHTHOL AS	RED	VI 5049/15	50%	47%	3%	5-6	5	5	4-5	5	3-4
	R.185	NBON-ARYLAMIDE BENZIM.	RED	VI 5078/15	50%	48%	2%	7-8	5	5	5	5	5
	R.101	IRON III OXIDE	RED	VI 5401/15	70%	27%	3%	8	5	5	5	5	5
	V.23	DIOXAZINE VIOLET	VIOLET	VI 7010/15	50%	48%	2%	5	5	5	5	3	4
	V.23	DIOXAZINE VIOLET	VIOLET	VI 7010/15 M	50%	48%	2%	8	5	5	5	4	5
	B.15:3	PHTHALO	BLUE	VI 6010/15	50%	47%	3%	8	5	5	5	5	5
	B.15:3	PHTHALO	BLUE	VI 6010/15 M	50%	47%	3%	8	5	5	5	5	5
	B.15:3	PHTHALO	BLUE	VI 6030/15	50%	47%	3%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	VI 9010/15	55%	43%	2%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VI 3000/15	45%	53%	2%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VI 3000/15 M	45%	53%	2%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VI 3000/45	45%	51%	4%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VI 3807/15	45%	49%	6%	8	5	5	5	5	5

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MIFAST DISPERSVYN VB - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	VB 8000/80	80%	20%	0%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	VB 2413/61	60%	40%	0%	5	5	5	4	5	4
	Y.13	DISAZO	YELLOW	VB 2413/70	70%	30%	0%	5	5	5	4	5	4
	Y.14	DISAZO	YELLOW	VB 2014/65	65%	35%	0%	4	5	4	4-5	5	5
	Y.14	DISAZO	YELLOW	VB 2714/65	65%	30%	5%	4	5	4	4-5	5	5
	Y.17	DISAZO	YELLOW	VB 2017/65	65%	35%	0%	6	5	5	4-5	5	5
	Y.83	DISAZO	YELLOW	VB 2083/65	65%	35%	0%	6-7	5	5	5	5	5
	Y.155	DISAZO	YELLOW	VB 2155/50	50%	50%	0%	7	5	5	4-5	5	5
	O.34	PYRAZOLONE	ORANGE	VB 4034/65	65%	35%	0%	7	4	5	3	5	5
	R.48:2	2B TONER CALCIUM	RED	VB 5482/60	60%	40%	0%	5	4-5	4	5	3	5
	R.57:1	4B TONER CALCIUM	RED	VB 5572	55%	45%	0%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	VB 5571/60	55%	45%	0%	3	3	3	4-5	2	3
	R.122	QUINACRIDONE	PINK	VB 5122/50	50%	50%	0%	7	5	5	5	5	5
	R.146	NAPHTHOL AS	RED	VB 5146/60	60%	40%	0%	5-6	5	5	4-5	4	4-5
	R.147	NAPHTHOL AS	RED	VB 5034/65	65%	35%	0%	5	5	5	4	5	5
	R.170	NAPHTHOL AS	RED	VB 5170/70	70%	30%	0%	5	5	5	4-5	-	-
	R.184	NAPHTHOL AS	RED	VB 5184/51	50%	50%	0%	5-6	5	5	4-5	5	3-4
	R.184	NAPHTHOL AS	RED	VB 5184/65	65%	35%	0%	5-6	5	5	4-5	5	3-4

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MIFAST DISPERSVYN VB - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	R.254	DIKETO-PIRROLO-PYRROLE	RED	VB 5254/60	60%	40%	0%	8	5	5	5	5	5
	V.23	DIOXAZINE VIOLET	VIOLET	VB 7023/60	60%	40%	0%	8	5	5	5	4	5
	V.37	DIOXAZINE VIOLET	VIOLET	VB 7037/65	60%	35%	5%	7	5	5	4-5	5	5
	B.15:3	PHTHALO	BLUE	VB 6153/60	60%	40%	0%	8	5	5	5	5	5
	B.15:3	PHTHALO	BLUE	VB 6153/62	60%	40%	0%	8	5	5	5	5	5
	B.15:3	PHTHALO	BLUE	VB 6153/70	70%	25%	5%	8	5	5	5	5	5
	B.15:3	PHTHALO	BLUE	VB 6153/71	70%	30%	0%	8	5	5	5	5	5
	B.15:4	PHTHALO	BLUE	VB 6154/60	55%	45%	0%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	VB 9707/60	55%	45%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VB 3000/60	60%	40%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VB 3002/60	60%	40%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VB 3007/54	50%	44%	6%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VB 3007/60	60%	40%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VB 3060/50	50%	50%	0%	8	5	5	5	5	5

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MIFAST DISPERSID PA - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	Y.14	DISAZO	YELLOW	PA 2011/55	50%	50%	0%	4	5	4	4-5	5	5
	Y.74	MONOAZO	YELLOW	PA 2032/50	50%	50%	0%	7	5	5	4	5	5
	Y.83	DISAZO	YELLOW	PA 2013/55	55%	45%	0%	6-7	5	5	5	5	5
	O.34	PYRAZOLONE ORANGE	ORANGE	PA 4034/60	45%	55%	0%	7	4	5	3	5	5
	O.46	LAKE ORANGE B	ORANGE	PA 4016/55	55%	45%	0%	4-5	5	5	3	4-5	2
	R.48:2	2B TONER CALCIUM	RED	PA 5012/55	55%	45%	0%	5	4-5	4	5	3	5
	R.53:1	LAKE RED C	RED	PA 5018/55	50%	48%	2%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	PA 5023/55	55%	44%	1%	3	3	3	4-5	2	3
	R.122	QUINACRIDONE	PINK	PA 5005/50	50%	50%	0%	7	5	5	5	5	5
	R.166	AZO CONDENSATION	RED	PA 5166/55	50%	48%	2%	7-8	5	5	5	5	5
	V.23	DIOXAZINE VIOLET	VIOLET	PA 7010/55	50%	50%	0%	8	5	5	5	4	5
	B.15:3	PHTHALO	BLUE	PA 6010/55	50%	48%	2%	8	5	5	5	5	5
	B.15:4	PHTHALO	BLUE	PA 6030/55	55%	45%	0%	8	5	5	5	5	5
	B.27	MILORI BLUE	BLUE	PA 6027/65	65%	35%	0%	8	5	5	5	2	5
	G.7	PHTHALO	GREEN	PA 9010/55	55%	45%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	PA 3000/50	50%	48%	2%	8	5	5	5	5	5

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MIFAST DISPERTHYL EC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	EC 8000	70%	27%	3%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	EC 2413	50%	45%	5%	5	5	5	4	5	4
	Y.83	DISAZO	YELLOW	EC 2023	50%	45%	5%	6-7	5	5	5	5	5
	R.48:2	2B TONER CALCIUM	RED	EC 5012	50%	45%	5%	5	4-5	4	5	3	5
	R.146	NAPHTHOL AS	RED	EC 5033	50%	45%	5%	5-6	5	5	4-5	4	4-5
	R.166	AZO CONDENSATION	RED	EC 5048OP	50%	45%	5%	7-8	5	5	5	5	5
	R.166	AZO CONDENSATION	RED	EC 5166HT	50%	45%	5%	7-8	5	5	5	5	5
	Br. 23	AZO CONDENSATION	BROWN	EC 5123	50%	45%	5%	6-7	3-4	-	4-5	-	-
	B.15:3	PHHALO	BLUE	EC 6010	50%	45%	5%	8	5	5	5	5	5
	G.7	PHHALO	GREEN	EC 9010	50%	45%	5%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	EC 3000	50%	45%	5%	8	5	5	5	5	5

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MIFAST DISPERCAP AP - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	AP 8000/80	75%	21%	4%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	AP 2413/60	60%	37%	3%	5	5	5	4	5	4
	Y.83	DISAZO	YELLOW	AP 2083/60	55%	42%	3%	6-7	5	5	5	5	5
	R.48:1	2B TONER BARIUM	RED	AP 5481/60	55%	45%	0%	4	4	4	4	4	5
	R.48:2	2B TONER CALCIUM	RED	AP 5482/60	55%	45%	0%	5	4-5	4	5	3	5
	R.53:1	LAKE RED C	RED	AP 5531/60	55%	42%	3%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	AP 5571/60	55%	42%	3%	3	3	3	4-5	2	2
	R.184	NAPHTHOL AS	RED	AP 5184/60	50%	37%	13%	5-6	5	5	4-5	5	3-4
	V.23	DIOXAZINE VIOLET	VIOLET	AP 7023/60	60%	37%	3%	8	5	5	5	4	5
	B.15:3	PHTHALO	BLUE	AP 6153/60	60%	37%	3%	8	5	5	5	5	5
	B.15:4	PHTHALO	BLUE	AP 6154/60	60%	30%	10%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	AP 9007/60	55%	42%	3%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	AP 9007/64	50%	40%	10%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	AP 3035/35	60%	37%	3%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	AP 3060/60	55%	42%	3%	8	5	5	5	5	5

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MIFAST DISPERCAB CB - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	CB 8000/80	80%	17%	3%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	CB 2413/50	50%	40%	10%	5	5	5	4	5	4
	Y.83	DISAZO	YELLOW	CB 2083/50	50%	40%	10%	6-7	5	5	5	5	5
	Y.155	DISAZO	YELLOW	CB 2035/50	45%	45%	10%	7	5	5	4-5	5	5
	O.34	PYRAZOLONE ORANGE	ORANGE	CB 4034/50	40%	49%	11%	7	4	5	3	5	5
	R.48:2	2B TONER CALCIUM	RED	CB 5482/50	45%	44%	11%	5	4-5	4	5	3	5
	R.53:1	LAKE RED C	RED	CB 5531/50	50%	40%	10%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	CB 5571/50	45%	44%	11%	3	3	3	4-5	2	3
	R.122	QUINACRIDONE	PINK	CB 5122/50	50%	40%	10%	7	5	5	5	5	5
	V.23	DIOXAZINE VIOLET	VIOLET	CB 7023/50	50%	40%	10%	8	5	5	5	4	5
	B.15:3	PHTHALO	BLUE	CB 6153/50	50%	40%	10%	8	5	5	5	5	5
	B.15:3	PHTHALO	BLUE	CB 6153/60	60%	30%	10%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	CB 9007/50	50%	40%	10%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	CB 3007/40	45%	47%	8%	8	5	5	5	5	5

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MIFAST DISPERCRYL AW - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	AW 8000/78	80%	20%	0%	8	5	5	5	5	5
	Y.13	DISAZO	YELLOW	AW 2413/78	55%	45%	0%	5	5	5	4	5	4
	Y.83	DISAZO	YELLOW	AW 2083/78	50%	50%	0%	6-7	5	5	5	5	5
	R.49:1	MONOAZO	RED	AW 5491/78	50%	50%	0%	5	5	3	3	-	-
	R.53:1	LAKE RED	RED	AW 5531/78	55%	45%	0%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	AW 5571/78	50%	50%	0%	3	3	3	4-5	2	3
	R.166	AZO CONDENSATION	RED	AW 5066/78	55%	45%	0%	7-8	5	5	5	5	5
	V.23	DIOXAZINE VIOLET	VIOLET	AW 7023/78	50%	50%	0%	8	5	5	5	4	5
	B.15:3	PHTHALO	BLUE	AW 6153/78	55%	45%	0%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	AW 9007/78	55%	45%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	AW 3004/78	55%	45%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	AW 3804/78	45%	55%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	AW 3804/50	45%	55%	0%	8	5	5	5	5	5

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MIFAST DISPERSVYN WB - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	WB 8000	80%	20%	0%	8	5	5	5	5	5
	O.34	PYRAZZOLONE	ORANGE	WB 4034	55%	45%	0%	7	4	5	3	5	5
	R.57:1	4B TONER CALCIUM	RED	WB 5571	60%	35%	5%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	WB 5572	55%	45%	0%	3	3	3	4-5	2	3
	R.147	NAPHTHOL AS	RED	WB 5147	65%	35%	0%	5	5	5	4	5	5
	R.254	DIKETO-PIRROLO-PYRROLE	RED	WB 5254	45%	55%	0%	8	5	5	5	5	5
	V.23	DIOXAZINE VIOLET	VIOLET	WB 7023	60%	40%	0%	8	5	5	5	4	5
	V.37	DIOXAZINE VIOLET	VIOLET	WB 7037	60%	35%	5%	7	5	5	4-5	5	5
	B.15:3	PHHALO	BLUE	WB 6153	65%	30%	5%	8	5	5	5	5	5
	B.15:3	PHHALO	BLUE	WB 6153/70	70%	25%	5%	8	5	5	5	5	5
	G.7	PHHALO	GREEN	WB 9707	55%	45%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	WB 3007	50%	50%	0%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	WB 3804/54	50%	50%	0%	8	5	5	5	5	5

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DISPERCOS - PRODUCT RANGE

COLOR INDEX	PIGMENT COLOR LABELLING	COLOR	NAME	CODE	Pigment C.A.S. Number	COMPOSITION			STANDARD SPECIFICATION						
						Pigment	NC	ATBC	Lightfastness ¹	Chemical resistance ²					
										Alkali	Acids	Solvents	Soap	Butter	
	W.OX	TITANIUM DIOXIDE	WHITE	DISPERCOS WHITE TITANIUM DIOXIDE	COS 800001	13463-67-7	75%	15%	10%	8	5	5	5	5	5
	W.6	TITANIUM DIOXIDE	WHITE	DISPERCOS POLY WHITE	COS 800002	not applicable	75%	15%	10%	8	5	5	5	5	5
	W.6	TITANIUM DIOXIDE	WHITE	DISPERCOS POLY WHITE TRAITE	COS 800003	not applicable	75%	15%	10%	8	5	5	5	5	5
	Y.100	SULFONIC ACID	YELLOW	DISPERCOS YELLOW No 5	COS 200501	12225-21-7	40%	45%	15%	2	2	2	2	-	-
	Y.6	SULFONIC ACID	YELLOW	DISPERCOS YELLOW No 6	COS 200601	15790-07-5	40%	45%	15%	2	2	2	2	-	-
	Y.115	SULFONIC ACID	YELLOW	DISPERCOS YELLOW No 10	COS 201001	68814-04-0	40%	45%	15%	3	4	3	3	-	-
	F.Y.17	ALUMINIUM HYDROXIDE	YELLOW	DISPERCOS FLUORESCENT YELLOW No 17	COS 261750	21654-51-2	50%	35%	15%	2	2	2	2	-	-
	R.27	FLUORAN	RED	DISPERCOS RED No 27	COS 500027	13743-26-2	40%	45%	15%	2	2	2	2	-	-
	R.6	BARIUM HYDROXIDE	RED	DISPERCOS RED No 6	COS 500601	17852-98-1	40%	43%	17%	4	3	2	4	-	-
	R.57:1	4B TONER CALCIUM	RED	DISPERCOS RED No 7 LIGHT	COS 500701	5281-04-09	40%	45%	15%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	DISPERCOS RED No 7 DARK	COS 500702	5281-04-09	40%	45%	15%	3	3	3	4-5	2	3
	R.57:1	4B TONER CALCIUM	RED	DISPERCOS RED 7 - KF	COS 500703	5281-04-09	30%	54%	16%	3	3	3	4-5	2	3
	R.63:1	MONO AZO	RED	DISPERCOS RED No 34	COS 503401	6417-83-0	40%	45%	15%	4	3	3	4	-	-
	R.4	B-NAPHTHOL	RED	DISPERCOS RED No 36	COS 503601	2817-77-9	40%	45%	15%	4	5	5	4	5	3-4
	V.16	MANGANESE VIOLET	VIOLET	DISPERCOS VIOLET No.16	COS 701601	10101-66-3	40%	45%	15%	5	2	5	5	-	-
	B.2C	ALUMINIUM SALT	BLUE	DISPERCOS BLUE No 1	COS 600101	272-939-6	40%	45%	15%	2	2	2	2	-	-
	Blu UltraMarine	DIALUMINIUM SALT	BLUE	DISPERCOS BLUE ULTRAMARINE	COS 603940	15792-67-3	40%	45%	15%	8	5	2	5	-	-
	B.27	MILORI BLUE	BLUE	DISPERCOS CROMA IRON BLUE	COS 650101	25869-00-5	50%	40%	10%	8	5	5	5	5	5
	BI.2	CARBON BLACK	BLACK	DISPERCOS BLACK 2	COS 350201	215-609-9	20%	55%	25%	8	5	5	5	5	5

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DISPERLIT AW - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					REMARKS		
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²						
								Alkali	Acids	Solvents	Soap		Butter	
	W.6	TITANIUM DIOXIDE	WHITE	DAW 8000	75%	25%	0%	8	5	5	5	5	5	
	W.6	TITANIUM DIOXIDE	WHITE	DAW 8000 NO	80%	20%	0%	8	5	5	5	5	5	
	Y.17	DISAZO	YELLOW	DAW 2017	65%	35%	0%	6	5	5	4-5	5	5	
	Y.74	MONOAZO	YELLOW	DAW 2074	65%	35%	0%	7	5	5	4	5	5	
	Y.83	DISAZO	YELLOW	DAW 2083	65%	35%	0%	6-7	5	5	5	5	5	
	Y.93	Double azo	YELLOW	DAW 2093	65%	35%	0%	7	5	5	5	5	5	
	R.23	AZO CONDENSATION	RED	DAW 5023	60%	40%	0%	5-6	5	5	1-2	-	-	
	R.122	QUINACRIDONE	PINK	DAW 5122	60%	40%	0%	7	5	5	5	5	5	
	R.166	AZO CONDENSATION	RED	DAW 5166	60%	40%	0%	7-8	5	5	5	5	5	High Transparency
	R.166	AZO CONDENSATION	RED	DAW 5166 NO	60%	40%	0%	7-8	5	5	5	5	5	
	R.166	AZO CONDENSATION	RED	DAW 5166 OP	60%	40%	0%	7-8	5	5	5	5	5	
	R.184	NAPHTHOL AS	RED	DAW 5184	60%	40%	0%	5-6	5	5	4-5	5	3-4	
	R.184	NAPHTHOL AS	RED	DAW 5184 GR	60%	40%	0%	5-6	5	5	4-5	5	3-4	
	R.221	AZO CONDENSATION	RED	DAW 5221	60%	40%	0%	7-8	-	-	4-5	-	-	
	V.23	DIOXAZINE VIOLET	VIOLET	DAW 7023	55%	45%	0%	8	5	5	5	4	5	
	B.16	PHthalOCYANINE	BLUE	DAW 6016	70%	30%	0%	8	5	5	5	5	5	
	B.15:3	PHthalO	BLUE	DAW 6153	70%	30%	0%	8	5	5	5	5	5	
	G.7	PHthalO	GREEN	DAW 9000	60%	40%	0%	8	5	5	5	5	5	
	BI.7	CARBON BLACK	BLACK	DAW 3007	60%	40%	0%	8	5	5	5	5	5	
	BI.7	CARBON BLACK	BLACK	DAW 3007 NO	60%	40%	0%	8	5	5	5	5	5	

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DISPERLIT EC - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	EC 8000 M	70%	27%	3%	8	5	5	5	5	5
	Y.83	DISAZO	YELLOW	EC 2023 M	50%	45%	5%	6-7	5	5	5	5	5
	Y.83	DISAZO	YELLOW	EC 2083 NO	50%	45%	5%	6-7	5	5	5	5	5
	Y.93	DISAZO	YELLOW	EC 2193 M	50%	45%	5%	7	5	5	5	5	5
	Y.13	DISAZO	YELLOW	EC 2413 M	50%	45%	5%	5	5	5	4	5	4
	O.34	PYRAZOLONE ORANGE	ORANGE	EC 4034 NO	50%	45%	5%	7	4	5	3	5	5
	R.48:2	2B TONER CALCIUM	RED	EC 5012 M	50%	45%	5%	5	4-5	4	5	3	5
	R.146	NAPHTHOL AS	RED	EC 5033 M	50%	45%	5%	5-6	5	5	4-5	4	4-5
	R.166	AZO CONDENSATION	RED	EC 50480 PM	50%	45%	5%	7-8	5	5	5	5	5
	R.184	NAPHTHOL AS	RED	EC 5049 M	50%	45%	5%	5-6	5	5	4-5	5	3-4
	Br.23	AZO CONDENSATION	#N/D	EC 5123 M	50%	45%	5%	6-7	3-4	-	4-5	-	-
	R.166	AZO CONDENSATION	RED	EC 5166 HTM	50%	45%	5%	7-8	5	5	5	5	5
	V.37	DIOXAZINE VIOLET	VIOLET	EC 7037 M	50%	45%	5%	7	5	5	4-5	5	5
	B.15:3	PHTHALO	BLUE	EC 6010 M	50%	45%	5%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	EC 9010 M	50%	45%	5%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	EC 3000 M	50%	45%	5%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	EC 3000 MHO	55%	35%	10%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	EC 3000 MNT	55%	40%	5%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	EC 3070 M	70%	26%	4%	8	5	5	5	5	5

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




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DISPERLIT VK - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION						
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²					
								Alkali	Acids	Solvents	Soap	Butter	
	W.6	TITANIUM DIOXIDE	WHITE	VK8000	75%	22%	3%	8	5	5	5	5	5
	Y.83	DISAZO	YELLOW	VK2083	45%	52%	3%	6-7	5	5	5	5	5
	Y.93	DOUBLE AZO	YELLOW	VK2093	45%	53%	2%	7	5	5	5	5	5
	Y.110	ISODIOLINO	YELLOW	VK2110	50%	48%	2%	8	5	5	3-4	-	-
	R.144	AZO CONDENSATION	RED	VK5144	40%	60%	0%	7-8	5	5	5	5	5
	R.144	AZO CONDENSATION	RED	VK5144HT	40%	60%	0%	7-8	5	5	5	5	5
	R.185	BENZIMIDAZOLONE	RED	VK5185	45%	51%	4%	7-8	5	5	5	5	5
	R.202	QUINACRIDONE	RED	VK5202	50%	46%	4%	7	5	5	4-5	5	5
	R.254	DIKETO-PIRROLO-PYRROLE	RED	VK5254	45%	55%	0%	8	5	5	5	5	5
	R.254	DIKETO-PIRROLO-PYRROLE	RED	VK5254HT	45%	53%	2%	8	5	5	5	5	5
	V.37	DIOXANINE VIOLET	VIOLET	VK7037	45%	52%	3%	7	5	5	4-5	5	5
	B.60	INDANTHRONE	BLUE	VK6060T	50%	44%	6%	8	5	5	3	-	-
	B.15:3	PHTHALO	BLUE	VK6153	50%	46%	4%	8	5	5	5	5	5
	G.7	PHTHALO	GREEN	VK9007	45%	53%	2%	8	5	5	5	5	5
	Bl.7	CARBON BLACK	BLACK	VK3007	45%	49%	6%	8	5	5	5	5	5

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COMPOSTABLE - PRODUCT RANGE

COLOR INDEX	PIGMENT CLASS	COLOR	CODE	COMPOSITION			STANDARD SPECIFICATION					SOLVENT	UV	ENI13432		
				% Pigment	% Resin	% Plasticizer	Lightfastness ¹	Chemical resistance ²								
								Alkali	Acids	Solvents	Soap				Butter	
	56298 Y.139	ISOINDOLINE	YELLOW	CNC 213955	55%	32%	13%	7-8	5	5	5	5	5	V	V	certified
	56290 Y.185	ISOINDOLINE	YELLOW	CNC 218555	55%	33%	12%	7	2	5	4-5	5	5	V	V	certified
	12760 O.64	BENZIMIDAZOLONE	ORANGE	CNC 406455	55%	32%	13%	7	5	5	5	5	5	V	V	certified
	561170 O.73	PYRROLE	ORANGE	CNC 407355	55%	32%	13%	4-5	5	5	3-4	-	-	V	(V)	certified
	73915 R.122	QUINACRIDONE	PINK	CNC 500555	55%	32%	13%	7	5	5	5	5	5	V	V	certified
	20730 R.166	AZO CONDENSATION	RED	CNC 516655	55%	32%	13%	7-8	5	5	5	5	5	V	V	-
	561050 R.255	PYRROLE	RED	CNC 525555	55%	32%	13%	8	5	5	5	5	5	V	V	certified
	74100 B.16	PHthalOCYANINE	BLUE	CNC 601655	55%	33%	12%	8	5	5	5	5	5	V	V	certified
	51345 V.37	DIOXAZINE	VIOLET	CNC 703755	55%	32%	13%	7	5	5	4-5	5	5	V	V	certified
	59290+74100 Y185 + B.16	GREEN	MIX	CNC 900755	55%	32%	13%	7	2	5	4-5	5	5	V	V	certified

V recommended - (V) limited suitable - not recommended

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HACOLOR

COLOR INDEX	PIGMENT CLASS	CODE	NAME	COMPOSITION				STANDARD SPECIFICATION					REMARKS		
				Pigment	Binder	Nature	Plasticizer	Lightfastness ¹	Chemical resistance ²						
									Alkali	Acids	Solvents	Soap		Butter	
	B.15:1	α-Cu-Phtalo	60H51715	HACOLOR BLUE 51715 ATBC	30%	44%	NC-E	26%	7	4-5	5	5	-	-	
			60H51715EPO	HACOLOR BLUE 51715 EPO	30%	43%	NC-E	27%	7	4-5	5	5	-	-	
	B.15:3	β-Cu-Phtalo	60H51815	HACOLOR BLUE 51815 ATBC	30%	44%	NC-E	26%	8	5	5	5	5	5	
			60H54015	HACOLOR BLUE 54015	30%	60%	AY/NC	10%	8	5	5	5	5	5	
	B.15:4	β-Cu-Phtalo	60H50015	HACOLOR BLUE 50015 ATBC	45%	44%	NC-A	11%	8	5	5	5	5	5	
			60H50215	HACOLOR BLUE 50215 ATBC	60%	30%	NC-A	10%	8	5	5	5	5	5	
	B.16	Phtalo, Metalfree	60H50016	HACOLOR BLUE 50016	65%	31%	NC-A	4%	8	5	5	5	5	5	greenish
	B.29	Ultramarine	60H51029	HACOLOR BLUE 51029 ATBC	60%	30%	NC-E	10%	7-8	5	2	3	3	3	
	Bl.7	Carbon Black	60H70007	HACOLOR BLACK 70007 ATBC	40%	39%	NC-A	21%	8	5	5	5	5	5	
			60H70107	HACOLOR BLACK 70107 ATBC	30%	48%	NC-A	22%	8	5	5	5	5	5	
			60H70407	HACOLOR BLACK 70407 ATBC	45%	46%	NC-A	9%	8	5	5	5	5	5	
			60H70417	HACOLOR BLACK 70417 ATBC	40%	48%	NC-A	12%	8	5	5	5	5	5	
			60H70427	HACOLOR BLACK 70427 ATBC	35%	50%	NC-A	15%	8	5	5	5	5	5	good stability
			60H70907KOS	HACOLOR BLACK 70907 ATBC KOS V1422	30%	51%	NC-A	19%	8	5	5	5	5	5	
			60H71807	HACOLOR BLACK 71807 ATBC	15%	63%	NC-E	22%	8	5	5	5	5	5	
			60H71907	HACOLOR BLACK 71907 ATBC	20%	58%	NC-E	22%	8	5	5	5	5	5	
			60H71907DOA	HACOLOR BLACK 71907 DOA	20%	59%	NC-E	21%	8	5	5	5	5	5	
			60H71907EPO	HACOLOR BLACK 71907 EPO	20%	59%	NC-E	21%	8	5	5	5	5	5	
			60H71927	HACOLOR BLACK 71927 ATBC	20%	62%	NC-E	18%	8	5	5	5	5	5	stabilized
			60H71937	HACOLOR BLACK 71937 ATBC	20%	58%	NC-E	22%	8	5	5	5	5	5	stab., low viscosity

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HACOLOR

COLOR INDEX	PIGMENT CLASS	CODE	NAME	COMPOSITION				STANDARD SPECIFICATION					REMARKS		
				Pigment	Binder	Nature	Plasticizer	Lightfastness ¹	Chemical resistance ²						
									Alkali	Acids	Solvents	Soap		Butter	
		60H73007	HACOLOR BLACK 73007	50%	50%	PVC	0%	8	5	5	5	5	5		
		60H73507	HACOLOR BLACK 73507	45%	55%	PVC	0%	8	5	5	5	5	5		
		60H74107	HACOLOR BLACK 74107	20%	60%	AY-NC	20%	8	5	5	5	5	5		
	G.7	Cu-Phtalo	60H61807	HACOLOR GREEN 61807 ATBC	30%	43%	NC-E	27%	8	5	5	5	5	5	
		60H64007	HACOLOR GREEN 64007	30%	60%	AY/NC	10%	8	5	5	5	5	5	5	
	O.34	Disazopyrazolone	60H20034	HACOLOR ORANGE 20034 ATBC	40%	39%	NC-A	21%	7	4	5	3	5	5	
	O.5	β-Naphtol	60H20005	HACOLOR ORANGE 20005 ATBC	50%	40%	NC-A	10%	6-7	5	5	4	5	3	reddish
		60H20305	HACOLOR ORANGE 20305 ATBC	55%	34%	NC-A	11%	5	5	5	2	5	-	transp., reddish	
		60H20605	HACOLOR ORANGE 20605	70%	30%	NC-A	0%	6-7	5	5	4	5	3	reddish	
	R.112	Naphtol AS	60H31812	HACOLOR RED 31812 ATBC	25%	50%	NC-E	25%	5-6	5	5	4-5	5	3	
	R.122	Chinacridon	60H31822	HACOLOR RED 31822 ATBC	30%	50%	NC-E	20%	7	5	5	5	5	5	
	R.146	Naphtol AS	60H30946	HACOLOR RED 30946	65%	35%	NC-A	0%	5-6	5	5	5	5	5	
		60H37146	HACOLOR RED 37146	55%	45%	(vuoto)	0%	5-6	5	5	5	5	5	5	
	R.166	Disazo Condensation	60H30166	HACOLOR RED 30166 ATBC	45%	45%	NC-A	10%	7-8	5	5	5	5	5	
		60H38166	HACOLOR RED 38166	50%	50%	PVB	0%	7-8	5	5	5	5	5	5	
	R.170	Naphtol AS	60H31870	HACOLOR RED 31870 ATBC	30%	50%	NC-E	20%	5	5	5	4-5	-	-	
	R.179	Perylene	60H31979	HACOLOR RED 31979 ATBC	40%	39%	NC-E	21%	7	5	5	4-5	5	5	
	R.221	Disazo Condensation	60H30221	HACOLOR RED 30221 ATBC	55%	35%	NC-A	10%	7-8	-	-	4-5	-	-	
	R.254	Perylene	60H30254	HACOLOR RED 30254 ATBC	55%	35%	NC-A	10%	8	5	5	5	5	5	
	R.48:2	BONS, Ca	60H31848	HACOLOR RED 31848 ATBC	40%	40%	NC-E	20%	5	4-5	4	5	3	5	

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HACOLOR

COLOR INDEX	PIGMENT CLASS	CODE	NAME	COMPOSITION				STANDARD SPECIFICATION					REMARKS		
				Pigment	Binder	Nature	Plasticizer	Lightfastness ¹	Chemical resistance ²						
									Alkali	Acids	Solvents	Soap		Butter	
	R.48:4	BONS, Mn	60H30248	HACOLOR RED 30248 ATBC	50%	38%	NC-A	12%	7	4	4-5	5	3-4	4-5	
			60H31748	HACOLOR RED 31748 ATBC	35%	44%	NC-E	21%	7	4	4-5	5	3-4	4-5	
	R.57:1	BONS, Ca	60H30057	HACOLOR RED 30057 ATBC	45%	45%	NC-A	10%	3	3	3	4-5	2	3	
			60H30057K	HACOLOR RED 30057 KOS ATBC	45%	45%	NC-A	10%	3	3	3	4-5	2	3	
			60H38057	HACOLOR RED 38057	65%	35%	PVB	0%	3	3	3	4-5	2	3	
	R.81	Triaryl Carbonium	60H30081	HACOLOR RED 30081 ATBC	35%	40%	NC-A	25%	3-4	4-5	5	3-4	2	4	
	V.19	Chinacridon	60H41788	HACOLOR VIOLET 41788 ATBC	35%	45%	NC-E	20%	7-8	5	5	4-5	-	-	
			60H41788EPO	HACOLOR VIOLET 41788 EPO	35%	45%	NC-E	20%	7-8	5	5	4-5	-	-	
	V.23	Dioxazina	60H41723	HACOLOR VIOLET 41723 ATBC	25%	55%	NC-E	20%	8	5	5	5	4	5	
	V.37	Dioxazina	60H43037	HACOLOR VIOLET 43037	60%	40%	PVC	0%	7	5	5	4-5	5	5	
	V.39	Triaryl Carbonium	60H40239	HACOLOR VIOLET 40239 ATBC	35%	45%	NC-A	20%	8	5	5	5	-	-	
	W.6	Titanium Dioxide, Anastas	60H90506	HACOLOR WHITE 90506 ATBC	75%	15%	NC-A	10%	8	5	5	5	5	5	
			60H90506KOS	HACOLOR WHITE 90506 ATBC KOS	75%	15%	NC-A	10%	8	5	5	5	5	5	
			60H90506SAIB	HACOLOR WHITE 90506 SAIB	75%	15%	NC-A	10%	8	5	5	5	5	5	
			60H91406	HACOLOR WHITE 91406 ATBC	70%	20%	NC-E	10%	8	5	5	5	5	5	
			60H91406EPO	HACOLOR WHITE 91406 EPO	70%	20%	NC-E	10%	8	5	5	5	5	5	
			Titanium Dioxide, Rutil	60H90106	HACOLOR WHITE 90106 ATBC	75%	15%	NC-A	10%	8	5	5	5	5	5
			60H90706	HACOLOR WHITE 90706 ATBC	80%	12%	NC-A	8%	8	5	5	5	5	5	
			60H91706	HACOLOR WHITE 91706 ATBC	75%	15%	NC-E	10%	8	5	5	5	5	5	
			60H91806	HACOLOR WHITE 91806 ATBC	70%	20%	NC-E	10%	8	5	5	5	5	5	

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				Pigment	Binder	Nature	Plasticizer	Lightfastness ¹	Chemical resistance ²						
									Alkali	Acids	Solvents	Soap		Butter	
		60H91906	HACOLOR WHITE 91906 ATBC	75%	15%	NC-E	10%	8	5	5	5	5	5		
		60H91906DOA	HACOLOR WHITE 91906 DOA	75%	15%	NC-E	10%	8	5	5	5	5	5		
		60H93106	HACOLOR WHITE 93106	80%	20%	PVC	0%	8	5	5	5	5	5		
	Y.100	Single Azo.	60H10100	HACOLOR YELLOW 10100 KOS ATBC	55%	35%	NC-A	10%	2	2	2	2	-	-	
	Y.110	Isoidolino	60H10110	HACOLOR YELLOW 10110 ATBC	55%	35%	NC-A	10%	8	5	5	3-4	-	-	
	Y.13	Diaryl	60H18013	HACOLOR YELLOW 18013	70%	30%	PVB	0%	5	5	5	4	5	4	
	Y.17	Diaryl	60H10017	HACOLOR YELLOW 10017 ATBC	35%	45%	NC-A	20%	6	5	5	4-5	5	5	
			60H10817	HACOLOR YELLOW 10817	70%	30%	NC-A	0%	6	5	5	4-5	5	5	
			60H11717	HACOLOR YELLOW 11717 ATBC	35%	45%	NC-E	20%	6	5	5	4-5	5	5	
	Y.74	Monoazo	60H10574	HACOLOR YELLOW 10574	70%	30%	NC-A	0%	7	5	5	4	5	5	
	Y.83	Diaryl	60H10083	HACOLOR YELLOW 10083 ATBC	45%	45%	NC-A	10%	6-7	5	5	5	5	5	
			60H10483	HACOLOR YELLOW 10483	70%	30%	NC-A	0%	6-7	5	5	5	5	5	
			60H11783	HACOLOR YELLOW 11783 ATBC	30%	51%	NC-E	19%	6-7	5	5	5	5	5	
			60H13183	HACOLOR YELLOW 13183	70%	30%	PVC	0%	6-7	5	5	5	5	5	opaque
			60H13383	HACOLOR YELLOW 13383	60%	40%	PVC	0%	6-7	5	5	5	5	5	
			60H18083	HACOLOR YELLOW 18083	70%	30%	PVB	0%	6-7	5	5	5	5	5	

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