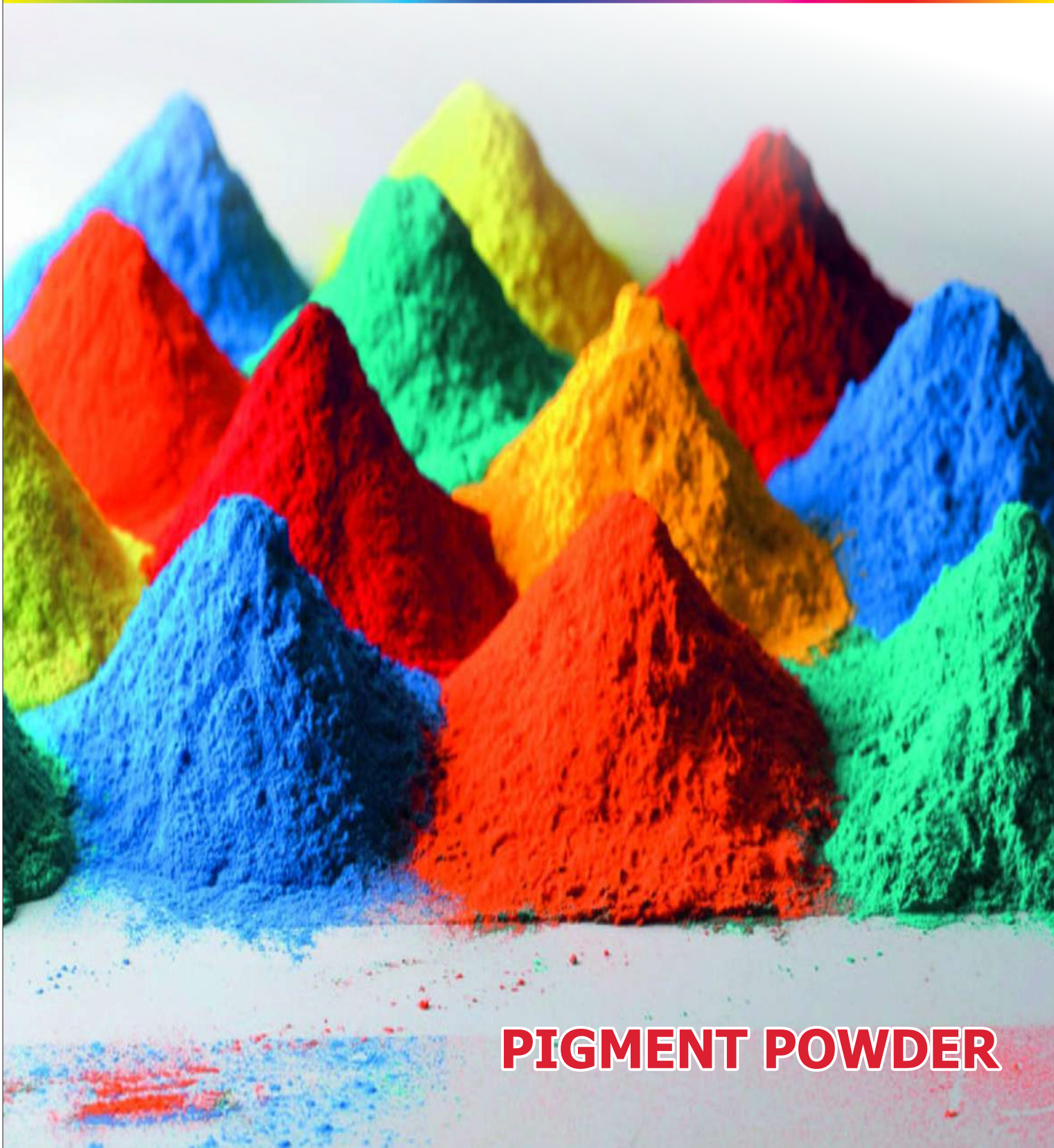
MAHICKRA

MAHICKRA CHEMICALS LIMITED



PIGMENT POWDER

Company Introduction

Mahickra Chemicals Limited is one of the leaders among manufacturers and suppliers & exporter of Dyestuffs.

Mahickra Chemicals Limited continues to play a leading role in the manufacturing of dyestuffs in India with the intent to further strengthen its position for its quality products. With our decades of experience and extensive industry knowledge, we have been able to face the challenges of the global market place and deliver quality products in adherence with market standards and parameters.

Mahickra Chemicals Limited production facilities are strategically located in the heart of chemical industrial zone VATVA, Ahmedabad that provides comparative ease and convenience to effectively utilize the Common Effluent Treatment Plant to further treat outlets.

Production And Quality Control

Whatever be user specification or quantity desired, our expertise and quality of service always remains the same. Modern production and techniques and flexible processes and procedures allow us to offer efficient service for small batch as well as large orders. Our products have already made in impact in the local market as well as in Srianka, Bangladesh, Pakistan, Zimbabwe, Netherlands, South Africa, Russia, Italy, Turkey, U.S.A., Indonesia and Korea, through direct and different good Merchant exporters.

Business Philosophy And Beliefs ...

Mahickra Chemicals Limited is a customer oriented company and work with the objective of achieving maximum customer satisfaction. The company has adopted innovative procedures and practices to meet customer expectations every time they deal with us. Strongly believe in long-term relation and business tie-up and also believe in mutual growth and support for bright prospects of **Mahickra** customer and **Mahickra** itself. We always welcome any feedback or suggestions from clients in order to serve them better.

Research and Development

The advance Research and Development & new Product Development is the one of the reasons for us to become a t he market leader in the Dyes & Pigment Industry today.

Our regular R & D help us to produce Global Standard of consistent quality. We have the Air Pollution Control upto rules and regulations by the government. We are also concious for safety in all respects.

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TECHNICAL DATA AND TEST METHODS

All our pigments manufacture and offers a comprehensive range of very many different pigments types, both Inorganic and Organics. The products are specially designed to meet the specialized requirements of the various major pigment using industries.

For the Coating industries, indication of possible fields of application are shown in the table, opposite each pigment. It must be stressed however, that these are only intended as a general guide. Users are recommended to conduct their own trials, under their own specific conditions, to ensure suitability.

TEST METHODS :

Spectrophotometry for Colour :

The given pigment is converted to a paint as per the end application required and is drawn on a standard paper with a given bar coater. The dried paint panel is than subjected to a spectrophotometer with D65 artificial dyelight and with an angle 10^0 observer. The difference in the shade standard against the batch is measured in accordance with CIE lab formula as per DIN6174 method giving the data of DL, DC, DH and DE.

Specific Gravity / Density :

Specific Gravity is measured by the air pycnometer methods per Indian standard BIS-33 clause 16 and is quoted in gms / cm^3 at 20^0C.

Oil Absorption :

The quantity of the oil required to wet and make a fine paste of the pigment is known as Oil absorption of the pigment. 10 gm of pigment is placed on a glass plate and rubbed out with a spatula. Adding drops of acid-refined linseed oil (40 poise viscosity) from a burette until a spreadable paste is obtained. The quantity of oil required for 100 gm of pigment is than calculated and given as Oil absorpiton value.

Dispersiblity :

This shown ease of dispersion in the medium. Pigment powder is ground in linseed oil using vibroshaker. The fineness of paste in Hegmann scale as well as micron size is than rated. Hegmann scale 7 + indicates excellent grindability and dispersibility.

Light Fastness :

Light Fastness is determined using xenon lamp exposure as per DIN 53.389 / ISO-105 BO2 tests and the assessment is against the 1-8 blue scale, where 8 denotes the highest light fastness and 1 denotes the poorest. (Scale 1-8)

Weather Fastness :

Weather fastness is carried out as per ISO-11341 method of the respective pigment in full shade and reduction in duly calibrated QUV weathrometer and reported on 1-5 greyscale. Where 1 denotes poorest and 5 denotes excellent weather fastness. (Scale 1-5)

Heat Stability :

The heat stability is determinded in ^{0}C at which the discolouration corresponds to the colour difference above the spectrophotometeric DE> 3.0 units. The alkyd melamine paint panel is exposed to a set temperature for 30 minutes and the colour deviation is measured by spectrophotometer.

Additional Tests :

These are some of the standard and important test methods whereas we also evaluate all our products for residue on sieve, moisture content, pH of water extract, specific conductivity, solvent fastness and other additional tests. The acid soluble test is evaluated as per DIN-ISO 6713:1984 method whereas the sulphur dioxide resistance is measured according to the ISO 3231 method; which denotes 5 as the highest SO_2 resistance and 1 as the lowest. (Scale 1-5)

Important Note :

In the shade card, the physical and chemical properties of the all our products are given in summarized format. These pigments are homogeneous fine powder. In different and applications the colour and fastness properties of individual pigments depend to a large extent on so many different factors like type of medium, dries, additives, method of application, concentration of pigment, film thickness, etc. The rating values are given in general terms. They can serve as guidelines in assessing the suitability of the pigments for a wide variety of products. Though, it is recommended that the customer verify the performance of these pigments under actual conditions of applications. Any existing industrial property rights must be observed. The quality of Hiteshri products are under general conditions of sale.

The Future

All our products to meet challenges by constant Research, Ideas, Innovation, Investment, New Products and Technologies. A number of people have also been assigned on special research projects focusing on the impact on the environment new technology for improved product and cost competitiveness. The results of all these efforts guarantee a continuous contribution by Hiteshri to the quality of life, both today & tomorrow.

Product Shade: MASS TONE	Product Shade: TINT TONE 1:1 / 1:10 TiO_2	BRILLIANT (CHROME PIGMENT)	C.I. Name & C.I. No.	Properties: Density (gm /cm³)	Oil Absorption (g / 100gm pig ± 5gm)	% Soluble Lead	SO_2 Resistance	Light Fastness-Full Shade	Weather Fastness-Full Shade	Heat Stability (°C)	Applications: Alkyd	Industrial	Coil Coating	Automotive & Refinish	Powder Coating	Plastics
		Chrome Yellow Lead Sulfo Chromate (Primrose Chrome)	PV-34 77603	5.3	22	--	2	4	2	220	●	●	○	--	●	--
		Chrome Yellow (1) Lead Sulfo Chromate (Lemon Chrome)	PV-34 77603	5.3	22	--	2	6	3	240	●	●	○	--	●	●
		Chrome Yellow (2) Lead Sulfo Chromate (Lemon Chrome)	PV-34 77603	5.3	22	--	2	6	3	240	●	●	○	--	●	●
		Chrome Yellow (1) Lead Sulfo Chromate (Middle Chrome)	PV-34 77600	5.4	21	<5%	2	6	3	240	●	●	○	--	●	●
		Chrome Yellow (2) Lead Sulfo Chromate (Middle Chrome)	PV-34 77600	5.4	20	<5%	2	6	3	240	●	●	○	--	●	●
		Chrome Yellow (M) Lead Sulfo Chromate (Middle Chrome)	PV-34 77600	5.4	21	<5%	2	7	3	220	●	●	○	--	●	●
		Chrome Orange (1) Lead Chromate, Sulphate, Molybdate (Scarlet)	PR-104 77605	6.0	20	<5%	2	6	3	220	●	●	○	--	●	●
		Chrome Orange (2) Lead Chromate, Sulphate, Molybdate (Scarlet)	PR-104 77605	6.0	20	<5%	2	6	3	220	●	●	○	--	●	●
		Chrome Orange (3) Lead Chromate, Sulphate Molybdate (Scarlet)	PR-104 77605	6.0	20	<5%	2	6	3	220	●	●	○	--	●	●

PREDARKENED STABILIZED (CHROME PIGMENTS)

		Chrome Yellow Lead Sulfo Chromate (Lemon Chrome)	PV-34 77603	5.5	24	<5%	3	7	4	260	●	●	○	--	--	●
		Chrome Yellow Lead Chromate (Middle Chrome)	PV-34 77600	5.5	24	<3%	3	7	4	260	●	●	○	--	--	●
		Chrome Orange Lead Chromate, Sulphate, Molybdate (Scarlet)	PR-104 77605	5.5	24	<3%	3	7	4	260	●	●	●	●	--	●

● Major use ○ Potential use -- Not Usable

INORGANIC CHROME PIGMENTS

Product Shade: MASS TONE	Product Shade: TINT TONE 1:1 / 1:10 TiO_2	CROME STABILIZED AND BRILLIANT PIGMENTS	C.I. Name & C.I. No.	Properties: Density (gm /cm³)	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: % Soluble Lead	Properties: SO_2 Resistance	Properties: Light Fastness-Full Shade	Properties: Weather Fastness-Full Shade	Properties: Heat Stability (°C)	Applications: Alkyd	Applications: Industrial	Applications: Coil Coating	Applications: Automotive & Refinish	Applications: Powder Coating	Applications: Plastics
		Chrome Yellow Lead Sulfo Chromate (Primrose Chrome)	PY-34 77603	5.3	24	--	2	6-7	3	240	●	●	○	--	●	●
		Chrome Yellow (1) Lead Sulfo Chromate (Lemon Chrome)	PY-34 77603	5.3	24	--	2	6-7	3	250	●	●	○	--	●	●
		Chrome Yellow (2) Lead Sulfo Chromate (Lemon Chrome)	PY-34 77603	5.3	23	--	2	6-7	3	250	●	●	○	--	●	●
		Chrome Yellow (1) Lead Chromate (Middle Chrome)	PY-34 77600	5.4	20	<5%	2	6-7	3	250	●	●	○	--	●	●
		Chrome Yellow (2) Lead Chromate (Middle Chrome)	PY-34 77600	5.4	22	<5%	2	6-7	3	250	●	●	○	--	●	●
HIGHLY STABILIZED AND SO_2 RESISTANT PIGMENT																
		Chrome Yellow Lead Sulfo Chromate (Primrose Chrome)	PY-34 77603	5.1	28	--	4-5	7-8	4-5	260	●	●	●	●	●	●
		Chrome Yellow Lead Sulfo Chromate (Lemon Chrome)	PY-34 77603	5.1	28	--	4-5	7-8	4-5	270	●	●	●	●	●	●
		Chrome Yellow (1) Lead Chromate (Middle Chrome)	PY-34 77600	5.4	21	<2%	4-5	7-8	4-5	270	●	●	●	●	●	●
		Chrome Yellow (2) Lead Chromate (Middle Chrome)	PY-34 77600	5.4	22	<2%	4-5	7-8	4-5	270	●	●	●	●	●	●
		Chrome Yellow Lead Chromate, Sulphate, Molybdate (Scarlet)	PR-104 77605	6.0	20	<2%	4-5	7-8	4-5	250	●	●	●	●	●	●
		Chrome Yellow Lead Chromate, Sulphate, Molybdate (Scarlet)	PR-104 77605	6.0	20	<2%	4-5	7-8	4-5	240	●	●	●	●	●	●
		Chrome Yellow Lead Chromate, Sulphate, Molybdate (Scarlet)	PR-104 77605	6.0	20	<2%	4-5	7-8	4-5	250	●	●	●	●	●	●

● Major use ○ Potential use -- Not Usable

INORGANIC CHROME PIGMENTS

Product Shade: MASS TONE	Product Shade: TINT TONE 1:1 / 1:10 TiO_2	BRILLIANT CROME PIGMENT	C.I. Name & C.I. No.	Properties: Bulk Density	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: ZnO/Zn/Sro Content in %	Properties: Loss On Ignition in % (Max)	Properties: CrO_3 Content	Properties: PO4 Content (Ignited Basis)	Properties: K_2O Content	Applications: Primer	Applications: Marine Coatings	Applications: Coil Coating	Applications: Etch Primer	Applications: Plastics
		Zinc Phosphate ZP (Dihydrate)	PW-32 77964	0.5-0.7	22	50.5-52% Ignited Sample	8.5-10%	--	47.5-50.0%	--	●	●	--	--	●
		Zinc Phosphate ZP1 (Dihydrate)	PW-32 77964	0.8-1.1	22	55.5-58% Ignited Sample	7.0-11%	--	37.5-39.5%	--	●	●	--	--	●
		Zinc Chromate ZC (Zinc Chrome)	PY-36 77955	0.7-0.8	22	36.5-40%	--	>43%	--	10-12%	●	○	--	--	●
		Tetroxy Chromate ZTC Zinc Tetroxy Chromate	PY-36.1 77956	0.2-0.3	28	68.5-72%	--	>17%	--	--	--	--	--	●	●
		Strontium Chromate STC	PY-36.1 77839	0.5-0.6	22	48%	--	>46%	--	--	●	--	●	--	●

Product Shade: MASS TONE	Product Shade: TINT TONE 1:1 / 1:10 TiO_2	OX CHROME OXIDE GREEN LIGHT / DARKER SHADE	C.I. Name & C.I. No.	Properties: Specific gravity gm/ cm^3 / Density	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: Light Fastness- Full Shade	Properties: Weather Fastness- Full Shade	Properties: Heat Stability (°C)	Properties: Alkyd	Properties: Industrial	Applications: Wood Coating / Artist colours	Applications: Automotive and Refinish	Applications: Powder Coating	Applications: Costruction/Ceramic/ Paper	Applications: Plastics
		Chrome Oxide Green LL/DD Lighter / Darker Shade	PG-17 77299	5.2	22	8	8	800	--	--	--	--	--	●	●
		OX YELLOW & RED OXIDE													
		Yellow Oxide Y	PY-42 77492	3.9	60	8	8	160	●	●	--	--	●	--	●
		Red Oxide R	PR-101 77491	4.6	60	8	8	300	●	●	--	●	●	--	●
		OX TRANSPARENT OXIDE													
		Transparent Yellow Oxide Y	PY-42 77492	4.0	55	8	8	160	--	●	●	●	--	--	●
		Transparent Red Oxide R	PR-101 77491	4.6	55	8	8	300	--	●	●	●	--	--	●

● Major use ○ Potential use -- Not Usable

COL (PTHOLO AND ORGANIC) (INKS, PAINT, PLASTICS)

Product Shade: MASS TONE	Product Shade: TINT TONE 1:20 TiO_2	COL PIGMENT YELLOW	C.I. Name & C.I. No.	Properties: Density (gm /cm³)	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: Fastness to Acid 5%	Properties: Fastness to Alkali 5%	Properties: Light Fastness-Full Shade	Properties: Weather Fastness-Full Shade	Properties: Heat Stability (°C)	Applications: Alkyd	Applications: Water Based	Applications: Coil Coating	Applications: Automotive & Refinish	Applications: Powder Coating	Applications: Plastics
		Pigment Yellow 1 G Monoazo Yellow	PY-1 11680	1.5	35	5	5	7	5	180	●	●	--	--	--	--
		Pigment Yellow 3 10G Monoazo Yellow	PY-3 11710	1.6	33	5	5	7	6	140	●	●	--	--	--	--
		Pigment Yellow 13 GRX-OP Diarylide Yellow	PY-13 21100	1.5	34	5	5	6	5	180	●	●	--	--	●	●
		Pigment Yellow 14 GRT-OP Diarylide Yellow	PY-14 21095	1.4	33	4	4	5	3	200	--	--	--	--	○	●
		Pigment Yellow 17 GG Diarylide Yellow	PY-17 21105	1.4	42	4	4	6	4	200	--	--	--	--	○	●
		Pigment Yellow 61 GL Monoazo Yellow, Ca	PY-61 13880	1.4	36	5	5	7	5	200	●	●	--	--	●	--
		Pigment Yellow 62 SR Monoazo Yellow, Ca	PY-62 13940	1.4	42	4	4	7	5	200	●	●	--	--	●	●
		Pigment Yellow 65 GPA Monoazo Yellow	PY-65 11740	1.4	41	5	5	7	5	180	●	●	--	--	○	●
		Pigment Yellow 74 2GSC Monoazo Yellow	PY-74 11741	1.5	30	5	5	7	5	150	●	●	--	--	●	--
		Pigment Yellow 74 5GSC Monoazo Yellow	PY-74 11741	1.5	35	5	5	6	5	150	●	●	--	--	●	--
		Pigment Yellow 74 HR-OP Diarylide Yellow	PY-83 21108	1.5	37	5	5	7	5	200	●	●	●	●	●	--
		Pigment Yellow 74 HR-O2 Diarylide Yellow	PY-83 21108	1.5	30	5	5	7	5	200	●	●	●	●	●	--

● Major use ○ Potential use -- Not Usable

COL (PTHOLO AND ORGANIC) (INKS, PAINT, PLASTICS)

Product Shade: MASS TONE	Product Shade: TINT TONE 1:20 TiO_2	COL PIGMENT YELLOWS	C.I. Name & C.I. No.	Properties: Density (gm /cm³)	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: Fastness to Acid 5%	Properties: Fastness to Alkali 5%	Properties: Light Fastness-Full Shade	Properties: Weather Fastness-Full Shade	Properties: Heat Stability (°C)	Applications: Alkyd	Applications: Water Based	Applications: Coil Coating	Applications: Automotive & Refinish	Applications: Powder Coating	Applications: Plastics
		Pigment Yellow 83 HR-LF Diaylide Yellow	PY-83 21108	1.5	33	5	5	7-8	5	200	●	●	●	●	●	●
		Pigment Yellow 151 Benzimidazolone Yellow	PY-151 13980	1.5	45	5	4	7	5	250	●	●	--	●	●	●
		Pigment Yellow 168 GP Monoazo Yellow Ca	PY-168 13960	1.5	33	5	4	7	5	200	●	●	--	--	●	●
		Pigment Yellow 191:1 SGP Monoazo Yellow Ca	PY-191:1 18795	1.5	43	5	5	8	5	300	●	●	--	●	●	●
		COL PIGMENT - ORANGE														
		Pigment Orange 5 EY Monoazo β Napthol	PO-5 12075	1.5	33	5	5	4	3	180	●	●	--	--	--	--
		Pigment Orange 13 SC Disazopyrazolone	PO-13 21110	1.5	39	5	4	7	4	200	●	●	--	--	○	●
		Pigment Orange 34 GR Disazopyrazolone	PO-34 21115	1.6	35	5	5	5	3	180	●	●	--	--	●	●
		Pigment Orange 34 GRLF Disazopyrazolone	PO-34 21115	1.7	30	5	5	7	5	180	●	●	--	--	●	●
		COL PIGMENT- REDS														
		Pigment Red 3 SC Monoazo β Napthol	PR-3 12120	1.5	33	5	5	6	4	180	●	●	--	--	--	--
		Pigment Red 4 SC Monoazo β Napthol	PR-4 12085	1.6	33	5	4	6	4	140	●	●	--	--	--	--
		Pigment Red 5 FB Monoazo Napthal AS	PR-5 12490	1.6	39	5	5	5	4	180	●	●	--	--	--	--
		Pigment Red 8 F4R Monoazo Napthal AS	PR-8 12335	1.5	36	4	4	5	3	150	●	●	--	--	--	--

● Major use ○ Potential use -- Not Usable

COL (PTHOLO AND ORGANIC) (INKS, PAINT, PLASTICS)

Product Shade: MASS TONE	Product Shade: TINT TONE 1:12 TiO_2	COL PIGMENT REDS	C.I. Name & C.I. No.	Properties: Density (gm /cm^3)	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: Fastness to Acid 5%	Properties: Fastness to Alkali 5%	Properties: Light Fastness-Full Shade	Properties: Weather Fastness-Full Shade	Properties: Heat Stability (°C)	Applications: Alkyd	Applications: Water Based	Applications: Coil Coating	Applications: Automotive & Refinish	Applications: Powder Coating	Applications: Platics
		Pigment Red 12 F2R Monoazo Napthol AS	PR-12 12385	1.4	35	4	4	7	5	150	●	●	--	--	--	--
		Red Toner 48:4 2B (Mn) Monoazo BONA Mn	PR-48:4 15865:4	1.6	36	1	2	4	3	180	●	--	--	--	--	●
		Red Toner 53:1 STL Monoazo β Napthol	PR-53:1 15585:1	1.5	37	2	4	5	3	180	--	--	--	--	○	●
		Red Toner 53:1 SC 507 Monoazo β Napthol	PR-53:1 15585:1	1.5	38	2	4	5	3	180	--	--	--	--	●	●
		Rubine Toner 57:1 UPY Monoazo BONA Ca	PR-57:1 15850:1	1.5	42	1	3	5	3	180	●	--	--	--	--	●
		Rubine Toner 57:1 PBC Monoazo BONA Ca	PR-57:1 15850:1	1.5	48	3	2	5	3	180	●	--	--	--	●	●
		Rubine Toner 57:1 C7B Monoazo BONA Ca	PR-57:1 15850:1	1.5	48	3	2	5	3	180	●	--	--	--	●	●
		Maroon Toner 63:1 Monoazo BONA Ca	PR-63:1 15880:1	1.6	43	1	3	6	4	160	●	●	--	--	○	--
		Fast Red 112 FGR Monoazo Napthol AS	PR-112 12370	1.4	35	5	4	7	5	180	●	●	--	--	○	--
		Fast Red 112 FGR-02 Monoazo Napthol AS	PR-112 12370	1.4	33	5	5	8	5	180	●	●	--	--	●	--
		Carmine Red 146 F2B Monoazo Napthol AS	PR-146 12485	1.5	33	5	5	6	4	180	●	●	--	--	○	--
		Pigment Red 170 F3RK-OP Monoazo Napthol AS	PR-170 12475	1.5	40	5	5	8	5	200	●	●	--	○	●	●

● Major use ○ Potential use -- Not Usable

COL (PTHOLO AND ORGANIC) (INKS, PAINT, PLASTICS)

Product Shade: MASS TONE	Product Shade: TINT TONE 1:12 TiO_2	COL PIGMENT REDS	C.I. Name & C.I. No.	Properties: Density (gm /cm³)	Properties: Oil Absorption (g / 100gm pig ± 5gm)	Properties: Fastness to Acid 5%	Properties: Fastness to Alkali 5%	Properties: Light Fastness-Full Shade	Properties: Weather Fastness-Full Shade	Properties: Heat Stability (°C)	Applications: Alkyd	Applications: Water Based	Applications: Coil Coating	Applications: Automotive & Refinish	Applications: Powder Coating	Applications: Plastics
		Pigment Red 170 F5RK Monoazo Napthol AS	PR-170 12475	1.6	35	5	5	7	5	250	●	●	--	●	●	●
		Pigment Red 170 F5RK-WR Monoazo Napthol AS	PR-170 12475	1.6	33	5	5	7	5	200	●	●	--	●	●	●
		Pigment Red 184 F6B Monoazo Napthol AS	PR-184 12487	1.6	40	5	5	5	3	180	○	○	--	--	○	--
		COL PIGMENT-VIOLET														
		Pigment Violet 23 Dioxazine	PV-23 51319	1.5	50	4	4	6	5	250	●	●	●	●	●	●
		COL PIGMENT-BLUES														
		Pigment Blue 15:0 Copper Phthalocyanine Blue (Alpha)	PB-15.0 74160	1.4	35	5	5	5	5	180	○	●	--	--	○	●
		Pigment Blue 15:1 Copper Phthalocyanine Blue (Alpha)	PB-15.1 74160	1.4	35	5	5	7	5	220	●	●	●	●	●	●
		Pigment Blue 15:3 PA Copper Phthalocyanine Blue (Beta)	PB-15.3 74160	1.4	35	5	5	7	5	240	●	--	●	●	●	●
		Pigment Blue 15:3 WB Copper Phthalocyanine Blue (Beta)	PB-15.3 74160	1.4	35	5	5	7	5	240	--	●	--	--	--	●
		Pigment Blue 15:4 Copper Phthalocyanine Blue (Beta)	PB-15.4 74160	1.4	35	5	5	7	5	240	●	●	●	●	●	●
		COL PIGMENT-GREENS														
		Pigment Green 7 Y Copper Phthalocyanine Green	PG-7 74260	1.5	30	5	5	7	5	280	●	●	●	●	●	●
		Pigment Green 7 Y Copper Phthalocyanine Green	PG-7 74260	1.5	30	5	5	7	5	280	●	●	●	●	●	●
		COL INORGANIC PIGMENT - BLUE														
		Pigment Green 27 Prussian Blue / Milori Blue	PB-27 77510	1.8	40	3	5	5	5	--	●	--	--	--	--	--

● Major use ○ Potential use -- Not Usable

Advantages

- High concentration
- Color brilliancy
- Strong build-up.
- Optimization of formulation
- Constant low viscosity
- Excellent dispersion stability
- Optimum particle size distribution
- Suitability for use on different fibers and their blends
- Stable mixture shade could be made
- Any other complements or tailor-made product can be offered as per the following shades

- Golden Yellow
- Parrot Green
- Red
- Rubine
- Olive Green
- Turquoise
- Bordeaux
- Brown

Standardization

Ph
Viscosity
Good coloristic properties

Wide range of application

Direct printing
Special effect prints
Discharge printing
Dyeing
Textile coating and finsihing
Resist printing

Good environmental compatibility & low-cost application methods

Easy fixation
Simple to use
No staining of white grounds
The fixation conditions are easy
Good liquidity to handle to cut energy and manpower
Certified by German ban amine
Certified to ensure customer amine free product.

For Dyeing

It is possible to standardize practically tone to tone dyeing of all the material coming across in the textile industry, which may be based on native or synthetic fiber or mixed fibers. Glass fiber material can be dyed exclusively with **Mahak** after verifying as per customer formulation.
The disadvantage of **Mahak** dyeing is that, here dyeing can produce only light to mediocre color depthness (less displaying property of **Mahak** against those colors having fiber afinity).
Mahak dyeing also produces a little harder material grip against other conventional dyeing.

The following articles may be suitable for dyeing with Mahak

- Bed Clothes
- Dress material and shirting
- Leisure wear, beach and bathing articles
- Decorative articles
- Camping materials (also comouflaging material) tenting materials
- Cover materials and lining materials
- Bands and belts
- Washout articles and stone washed articles
- Denium (pigmentation of warp yarn according to warp dressing process)
- Glass Fiber

EMULSION PIGMENT PASTES / TINTS

FASTNESS CHARACTERISTIC

Dry Heat Fixation

Product Shade 1%	Product Shade 4%	TINT Product Name & CI No.	Standard Depth	Light (ISO 105-B02)	Weather IOS 105-B04, 300h	Dry Cleaning (ISO 105-D010) Change of Shade	Dry Cleaning M & S Change of Shade	180°C / 30s (ISO 105-P01) Change of Shade	210°C / 30s (ISO 105 P01) Change of Shade	170°C 2 min Change of Shade
		YELLOW Y3 *Yellow 74	1 / 2 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 7.8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5 4.5 4.5 4.5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5Y
		YELLOW 5G *Yellow 3	1 / 2 1 / 3 1 / 4 1 / 6 1 / 9	7-8R 7-8R 7 6 5	7-8 7 6 5 5	1 1 1 1 1	1 1 1 1 1	5 5 5 5 5	4-5R 4R 3-4R 3-4R 3R	4-5 4-5 4-5 5 5
		YELLOW GG *Yellow 12	1 / 1 1 / 2 1 / 3 1 / 9 1 / 25	7 5-6 4-5 3-4 2	4-5 4 3 1 1	4-5 4 4 3 1	5 5 4 2-3 1	5 5 5 5 5	5 5 5 5 4-5R	5 5 5 5 5
		YELLOW RM *Yellow 12	1 / 1 1 / 3 2 /1	8 8 7 6 4-5	7 6 5 5 4	4-5 4-5 4-5 4-5 4-5	5 5 5 5 4-5	5 5 5 5 5	5 5 5 5 4-5R	5 5 5 5 5
		ORANGE 5G *Orange 13	2 / 1 1 / 1 1 / 2 1 / 6 1 / 25	6 4-5 6-7	4-5 3 6	4-5 4 4-5	5 4 5	5 5 5	5 5 4-5R	5 5 5
		ORANGE GR *Orange 5	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	7-8 6-7 4 3-4 2	6 4-5 4Y 4 2	4 3-4 3 3 1-2	5 5 5 4-5 4-5	5 5 5 5 5	5 5 5 5 4-5R	5 5 5 5 5R
		RED GG *Red 112	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	6-7B 5-6B 5B 4-5 2	4-5 4 3 2 1	2-3B 2-3B 2B 1-2B 1-2B	3B 2B 2B 2B 2	5 5 5 5 5	5 5 5 5 4-5	5 5 5 4-5 4-5
		RED GR *Red 8	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	8 7-8 7 6 4-5	7 6-7 6 5 4	1 1 1 1 1	2 2 1-2 1 1	5 5 5 4-5 4Y	5 4-5 4 4Y 4Y	5 5 5 5 4Y
		RED CB *Red 210	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	8 7 5 4 3	6 5 4 3-4 2-3	4-5 4-5 4-5 4 4	5 5 5 5 4	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5
		RUBINE CB *Red 32	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	7B 7B 6B 5 3-4	4-5 4B 3B 2 1	5 4-5 4 4 4	5 5 5 5 5	5 5 5 5 4-5	5 5 5 5 4-5Y	5 5 5 5 5
		BRI. PINK BL *Red 122	1 / 1 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 8 7	8 8 7-8 7-8 7	5 5 5 5 5	5 5 5 4-5 3-4	5 5 5 5 5	5 5 5 5 5Y	5 5 5 5 5
		RED VIOLET B **Red 31**	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	7B 7B 6B 5 3-4	4-5 4B 3B 2 1	5 4-5 4 4 4	5 5 5 5 5	5 5 5 5 4-5	5 5 5 5 4-5Y	5 5 5 5 5

EMULSION PIGMENT PASTES / TINTS

FASTNESS CHARACTERISTIC

Dry Heat Fixation

Product Shade 1%	Product Shade 4%	TINT Product Name & CI No.	Standard Depth	Light (ISO 105-B02)	Weather IOS 105-B04, 300h	Dry Cleaning (ISO 105-D010) Change of Shade	Dry Cleaning M & S Change of Shade	180°C / 30s (ISO 105-P01) Change of Shade	210°C / 30s (ISO 105 P01) Change of Shade	170°C 2 min Change of Shade
		BORDEAUX B *Red 12	1 / 1 1 / 2 1 / 4 1 / 12 1 / 25	8 7 5 4 3	6 5 4 3-4 2-3	4-5 4-5 4-5 4 5	5 5 5 5 4	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5
		VIOLET B *Violet 23	2 / 1 1 / 1 1 / 3 1 / 6 1 / 25	8 8 8 7 6-7	7-8 7 6-7 6-7 6	5 5 5 5 5	5 5 5 5 4-5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5
		GREEN G *Green 7	1 / 1 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 7-8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5 4-5 4-5 4-5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5Y
		GREEN GG *Mixture	1 / 1 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 7-8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5 4-5 4-5 4-5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5
		OLIVE GREEN B *Green 8	1 / 1 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 7-8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5 4-5 4-5 4-5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5Y
		BROWN GR *Mixture	1 / 1 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 7-8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5 4-5 4-5 4-5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5Y
		BROWN GY *Mixture	1 / 1 1 / 2 1 / 6 1 / 12 1 / 25	8 8 8 7-8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5 4-5 4-5 4-5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5
		BLUE BR *Blue 15.1	2 / 1 1 / 1 1 / 3 1 / 9 1 / 25	8 8 7 6-7 6Y	7-8Y 7-8 7 6-7Y 6Y	4-5 4 4 3 1-2	5 4-5 4-5 4 2	5 5 5 5 5	5 5 5 5 5Y	5 5 5 5 5Y
		BLUE B *Blue 15.0	1 / 1 1 / 3 1 / 6 1 / 12 1 / 25	8 8 8 7Y 5-6	7Y 7 7 6-7 6Y	4 4 4 3 2	5 4-5 4 3-4 2	5 5 5 5 4-5	5 5 5 5Y 5Y	5 5 5 5 5Y
		NAVY BLUE BB *Mixture	1 / 1 1 / 3 1 / 6 1 / 12 1 / 25	8 8 7-8 7 6-7	7-8 7-8 7-8 7 6-7	5 5 5 4-5 4G	5 5 5 4-5 4-5Y	5 5 5 5 5	5 5 5 5 5Y	5 5 5 5 5
		TURQ. BLUE G *Mixture	1 / 1 1 / 3 1 / 6 1 / 12 1 / 25	8 8 8 7-8 7	7-8 7 7 7 7	5 5 5 5 5	5 4-5Y 4-5Y 4-5Y 4-5Y	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5Y
		BLACK BB *Black 7	1 / 1 1 / 3 1 / 6 1 / 12 1 / 25	8 8 8 8 8	8 8 7-8 7 6-7	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5

MAHICKRA

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