



**Raveshia Pigments Ltd. | Raveshia Colours Pvt. Ltd.
Gomati Chemicals Pvt. Ltd.**

ISO 9001:2008 (QMS) certified

It's not just a Colour, it's an Attitude.

Products:

1. Chrome Pigments
2. Anticorrosive Pigments
3. Synthetic Iron Oxide Pigments
4. Phthalocyanine Blue Pigments

Capacities: 9000 MTPA

Technical Collaboration: With **HEUBACH GmbH (Germany)** for Chrome Pigments

Plant Location: **Raveshia Colours Pvt Ltd. (Chrome Pigments, Anticorrosive Pigments)**
Plot No. 123, G. I. D. C. Vapi - 396195 (Gujarat).
Tel No.: (0260) 2422996/3262996 Fax No.: (0260) 2432218

Raveshia Pigments Ltd. (Synthetic Iron Oxides)
Plot No. 45/46, G. I. D. C. Vapi, Dist. Bulsar - 396195, Gujarat.
Tel No.: (0260) 2430797/3266979 Fax No.: (0260) 2432218

Head Office

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Gomati Chemicals Pvt. Ltd. (Phthalocyanine Blue)
E-20 MIDC, Tarapur Boisar Industrial Area, Dist. Thane - 401501, Maharashtra.
Tel No.: (02525) 645244

Marketing Office for Gomati Chemicals Pvt. Ltd.

Mr. Niru Dhinoja (Director)
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Tel No.: (022) 6590 7295/2806 1079, Fax No.: (022) 2863 9430
E-mail: gomati@raveshia.com, Website: www.gomatipigments.com

Promoters:

1. Mr. Naresh Raveshia (Managing Director)
2. Mr. Manoj Raveshia (Director)
3. Mr. Piyush Raveshia (Director)





INORGANIC CHROME PIGMENTS



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CHROME PIGMENTS - TECHNICAL SPECIFICATIONS

Mass Tone	Tint Tone 1:5 TiO ₂	Product Code No.	Colour Index No.	Pigment No.	Oil Absorption	Moisture content, %	Specific Gravity	Bulk Density Gms/CC	Residue on Sieve 320 Mesh	Bleeding Resistance (1-5 Scale)				Resistance To			Application								
										Water	Acid(HCL)	Alkali (NaOH)	5% Soap Solution	Light (1-8) Scale	Heat 180 c/30 mins	220° c/20 mins	250° c/10 mins	Air Dry Enamel	Stoving Enamels	N.C. lacquer	Offset / Letter press Ink	Liquid Inks	Plastics	PVC Leather/Linoleum	
		Prime Rose Chrome	101	77603	PY-34	29	<1	5.6	0.98	0.5%	5	3	1	3	6	5	5	5	0	0	0	0	0	*	*
		Lemon Chrome	122	77603	PY-34	26	<1	5.0	0.78	0.5%	5	3	3	3	6	5	5	4	0	0	0	0	0	0	0
		Middle Chrome	138	77603	PY-34	29	<1	5.5	0.8	0.5%	5	3	3	3	6-7	5	4	3	0	0	0	0	0	0	0
		Middle Chrome	132	77603	PY-34	29	<1	5.5	0.8	0.5%	5	3	3	3	6-7	5	4	3	0	0	0	0	0	0	0
		Middle Chrome (H.T.)	139	77603	PY-34	29	<1	5.5	0.8	0.5%	5	3	3	3	6-7	5	5	5	0	0	0	*	*	0	*
		Scarlet Chrome	475	77605	PR-104	20	<1	6.5	1.0	0.5%	5	3	3	3	6-7	5	4	3	0	0	0	0	0	0	0
		Scarlet Chrome	482	77605	PR-104	20	<1	6.0	1.1	0.5%	5	3	3	3	6	5	4	3	0	0	0	0	0	0	0
		Scarlet Chrome	483	77605	PR-104	20	<1	6.0	1.1	0.5%	5	3	3	3	7-8	5	4	3	0	0	0	0	0	0	0
		Scarlet Chrome (H.T.)	493	77605	PR-104	22	<1	5.9	0.9	0.5%	5	3	3	3	6-7	5	5	5	0	0	0	*	*	0	0

Bleeding Scale
(1-5)
5 - No Bleed
1 - Bleeding

Light Fastness
Scale 1-8 as per
Blue Wool Scale

Heat Resistance
(1-5)
1 - Colour Change
5 - No Colour Change

Application
0 - Application
* - Limited Application
X - Not Application

No bleeding in Ethy Alcohol.
Butyl Acetate, White Spirit,
Xylene, M.E.K., Linseed Oil,
DCO, DOP/DBP.

Note: The analysis values & data are merely indication & given in good faith are not warranted.



ANTI-CORROSIIVE PIGMENTS



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ANTICORROSIVE PIGMENTS - TECHNICAL SPECIFICATIONS

ZINC PHOSPHATE	$Zn_3(PO_4)_2 \cdot 2H_2O$
Loss on Ignition	8.5 to 10%
Water Solubles	0.5% max
Zinc Content (as Zn) on Ignited Basis	50.5 to 51.5%
Phosphate (as PO_4 Calcined Basis)	47.5 to 50%
Moisture	0.5% max
Residue on Sieve 300 Mesh	0.5 % Max

STRONTIUM CHROMATE	$SrCrO_4$
Chromic Anhydride (CrO_3)	46.00% min.
Strontium Oxide (SrO)	48.0% min.
Oil Absorption	25 - 35
Residue on 43 Micron Sieve	0.5% max.
Conductivity (milimho/cm)	1.30 max.
Residue on Sieve 300 Mesh	0.5 % Max

ZINC CHROME	$K_2CrO_4 \cdot 3ZnCrO_4 \cdot Zn(OH)_2$	
Volatile Matter		1.0% max
Water Solubles		0.5% max
Chromic Anhydride	(CrO_3)	43% min
Total Zinc	(as ZnO)	36.5-40%
Alkali Metal Content	(as K_2O)	10 - 12%
Water Solubles		1.0% max
Chlorides	(Cl)	0.1% max
Sulphates	(SO_4)	0.1% max
Nitrates	(NO_3)	0.1% max
Water Soluble Chromate		0.25-05%
Residue on Sieve 300 Mesh		0.5% Max

ZINC TETROXY CHROMATE	$ZnCrO_4 \cdot 4 Zn(OH)_2$	
Zinc Oxide Content	(ZnO)	68%
Chromium Oxide	(CrO_3)	17%
Sulphates	(SO_4)	0.1% max
Chlorides	(Cl)	0.05% max
Nitrates	(NO_3)	0.05% max
Water Solubles		0.05% max
Residue on Sieve 300 Mesh		0.5% Max

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SYNTHETIC IRON OXIDES



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SYNTHETIC IRON OXIDES - TECHNICAL SPECIFICATIONS

MASS TONE	TINT TONE 1:3 TiO ₂	Product Name SYNTHETIC IRON OXIDES	Product Code	Colour Index	Pigment No.	Oil Absorption	Specific Gravity	pH Value	Iron as Fe ₂ O ₃ % min	Moisture and Volatile matter at 120° C max,%	44 micron residue on sieve max,%	Matter soluble water max,%
		Synthetic Yellow Oxide	813	77492	PY42	25-40	4.0	3-7	85.00	1.0	0.05	0.5
		Synthetic Yellow Oxide	814	77492	PY42	25-40	4.0	3-7	85.00	1.0	0.05	0.5
		Synthetic Yellow Oxide	910	77492	PY 42	25-40	4.0	3-7	85.00	1.0	0.05	0.5
		Synthetic Yellow Oxide	920	77492	PY 42	25 -40	4.0	3-7	85.00	1.0	0.05	0.5
		Synthetic Red Oxide	110 R	77491	PR101	15-25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	130 R	77491	PR101	15-25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	140	77491	PR 101	15 -25	4.5	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	145	77491	PR101	15-25	4.5	5-7	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	160 R	77491	PR101	15-25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	173	77491	PR101	15-25	5.0	5-7	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	180 R	77491	PR101	15-25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	222 R	77491	PR101	15-25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	273	77491	PR101	20-30	4.5	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	960 R	77491	PR101	25-40	4.3	4-7	88.00	1.0	0.5	0.5
		Synthetic Red Oxide	3097	77491	PR 101	15 -25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Red Oxide	8097	77491	PR 101	15 -25	5.0	4-8	95.00	1.0	0.5	0.5
		Synthetic Black Oxide	750	77499	PB11	15-30	4.5	4-8	94.00	1.0	0.5	0.5
		Synthetic Black Oxide	722	77499	PB 11	15-25	5.0	4-8	94.00	1.0	0.5	0.5
		Synthetic Black Oxide	318	77499	PB 11	15-25	5.0	4-8	94.00	1.0	0.5	0.5

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CHROME PIGMENTS



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HEUBACH GmbH RANGE

EXTRA HIGH PERFORMANCE: 6 fine layers of metal oxide shells form a nearly perfect encapsulation around each pigment particle and lead to unmatched resistance to light, weather and SO_2 , which qualifies these pigments for top industrial, automotive, powder and plastic applications. The 6 fold shells around each pigment particle acts as an effective barrier against the leaching of bio-available lead, thereby reducing the health-risks of using these pigments.

HIGH PERFORMANCE: The high performance line offers an optimal value in use. 3 - 4 highly effective layers around the pigment core provide substantially more protection against light, weather and heat when compared with standard chromate pigments. For only a little more money those pigments qualify as colourants for high quality plastic concentrates, industrial coatings, laminates and even entry level automotive.

STANDARD SERIES: Different from most of the standard chrome yellows found in the market, these pigments are protected by 2 sophisticated layers of metal oxides, which move lightfastness upto 6-7 level. These pigments are recommended wherever the utmost quality of the High Performance and Extra-High-Performance-series is not necessary and where good quality must be matched with reasonable pricing.

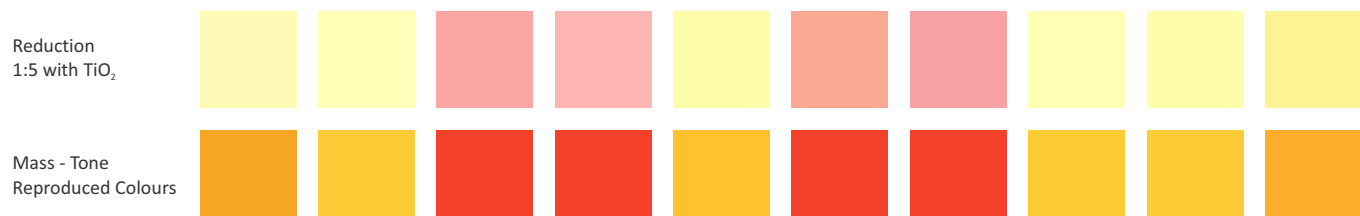
Like all other Heubach lines our Standard Line Chrome Yellows are cowles dispersible and do not require sandmilling in order to reach optimal gloss and strength.

	Extra High Performance				High Performance			Standard Series		
Physical Data	5 SN	13 SN	22 SN	23 SN	123 SN	220 SN	230 SN	1060 SN	1064 SN	1070 SN
Bulk Volume cm^3/g	2.1	2.5	1.5	1.4	2.5	1.6	1.8	2.7	2.3	3.7
Specific gravity g/cm^3	5.6	5.6	5.7	5.7	5.6	5.4	5.5	5.5	5.5	5.4
Oil Absorption $g/100g$	27	27	23	24	27	26	27	23	21	26
rel.Hiding Power vs. TiO_2	114	89	234	220	87	247	247	47	52	95
pH-Value	6-8	6-8	5-7	5-7	6-8	5-7	5-7	5-7	5-7	5-7
Acid Sol. Lead cont. %	<2.5	<3	<2	<2	<5	<4	<9	<11	<8	<6
Moisture (% Max)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Fastness Properties/Paints	5 SN	13 SN	22 SN	23 SN	123SN	220 SN	230 SN	1060 SN	1064 SN	1070 SN
Acid	4	4	4	4	4	3	3	2-3	2-3	2-3
Alkali	4	4	4	4	2	2	2	1	1	2
Light	8	8	8	8	7-8	7-8	7-8	6-7	6-7	6-7
Weather	5	5	5	5	4-5	4-5	4-5	3-4	3-4	3-4
Heat °C	210	210	220	220	200	190	190	170	170	170

Fastness Properties/Plastics	5 SN	13 SN	22 SN	23 SN	123 SN	220 SN	230 SN	1060 SN	1064 SN	1070 SN
Migration	5	5	5	5	5	5	5	5	5	5
Light Fastness (PE 1/3 ST) ¹⁾	8	8	8	8	7-8	7-8	6-7	6-7	6-7	6-7
Heat °C	260	260	260	260	260	260	260	260	260	260

- 1) Tested in PE 1/3 ST
2) Tested in PE, reduction 1:4 TiO_2



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PHTHALOCYANINE BLUE (s)



Gomati Chemicals Private Limited

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PHTHALOCYANINE BLUE (S) SPECIFICATIONS

Full Tone	Tint Tone (1:1 Reduction)	Tint Tone (1:10 Reduction)	PH	Oil Absorption	Bulk Density Gms/CC.	Specific Gravity	Fastness to Solvents					Resistance to			End Application									
							Ethanol	MEK	Ethyl Acetate	Xylene	Mineral Turpentine	5%NaOH/5%HCl	Heat Stability oC (5 min)	Migration	Light Fastness		Enamel Paint	Stoving Paint	Plastic	Water Based Application	Textile Emulsion	Offset Ink	Solvent Ink	
															Full Tone	Tint 1:20								
			6 to 8	40±3	0.40	1.6	5	4-5	5	4	5	5	240	5	8	8	*	*					*	
Phthalocyanine Blue BGO P.B.15:3(C.I.74160)																								
			6 to 8	45±3	0.40	1.6	5	4-5	5	4	5	5	240	5	8	8	*	*		*			*	
Phthalocyanine Blue BQ-BG P.B.15:3(C.I.74160)																								
			6 to 8	45±3	0.40	1.6	5	4-5	5	4	5	5	240	5	8	8	*	*		*	*	*		
Phthalocyanine Blue BQ-BGx P.B.15:3(C.I.74160)																								
			6 to 8	45±3	0.45	1.6	5	5	5	5	5	5	280	5	8	8	*	*					*	*
Phthalocyanine Blue BS-BGx P.B.15:4 (C.I. 74160)																								

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Note:

Light Fastness (1 - 8 Scale), 8 - Excellent, 1 - Poor

Bleeding in Solvent & Migration (1 - 5 Scale), 5 - Excellent, 1 - Poor

* Recommended End Application







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