



Office: 16/17, 3rd Kamdhenu Industrial Estate, Mindspace, Malad West, Mumbai- 400 064, India.
Tel: +91-22-42957551 / 28725721
Email: sales@allianceorganics.com
Website: www.dyespigments.net

info@kadammonen.com

TECHNICAL DATA AND TEST METHODS

ALLIANCE ORGANICS LLP manufactures and offers a wide range of Inorganic and Organic Pigments. These pigments are especially designed to meet the critical requirements of the various user industries. For the Coating industries, indications of possible fields of applications 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 specific conditions, to ensure suitability.

TEST METHODS :

Spectrophotometry for Colour :

The given pigment is dispersed in the medium as per standard method and a paint drawdown is prepared on a standard and approved paper with prescribed bar coater. The dried paint panel is then subjected to a spectrophotometer with D65 artificial daylight and with an angle of 10° observer. The difference in the shade – standard against the batch is measured in accordance with CIE lab formula as per DIN 6174 method giving the data of DL, DC, DH and DE.

Specific Gravity / Density :

Specific Gravity is measured as per standard BIS-33 clause 16 and is quoted in gms/cm³ at 20 degree.

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 then calculated and given as Oil absorption value.

Dispersibility :

This shows 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 then 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 B02 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 test method of the respective pigment in full shade and reduction in duly calibrated QUV weatherometer 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 determined in °C at which the discolouration corresponds to the colour difference above the spectrophotometric DE > 3.0 units. The alkyl melamine paint panel is exposed to a set temperature for 30 minutes and the colour deviation is measured by spectrophotometer.

Sulphur Dioxide Resistance Test (Kesternich Test) :

Kesternich testing simulates acid rain or industrial chemical exposure to evaluate the relative corrosion resistance of the coating. Coated panels are placed inside a specially designed chamber and are exposed to SO₂ and humidity. Test is evaluated as per ISO 3231 method which denotes 5 as the highest SO₂ resistance and 1 as the lowest. (Scale 1-5)

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.

Important Note :

In this shade card, the physical and chemical properties of the **ALLIANCE ORGANICS LLP** products are given in summarized format. These pigments are homogeneous fine powders. In different end applications the colour and fastness properties of individual pigments depend to a large extent on so many different factors like type of medium, driers, 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 **ALLIANCE ORGANICS LLP** products are under general conditions of sale.



ALLIANCE ORGANICS LLP					
	Product Code	C.I. Name & C.I. No.	Mass Tone 1:1	Tint Tone 1:10 TiO2	
	Allochrom Azo Pigments - Red				
Pigment Red 12	PR512	PR 12 12385			
Pigment Red 48:1	PR481K	PR 48:1 15865:1			
Pigment Red 48:2	PR482K	PR 48:2 15865:2			
Pigment Red 48:3	PR483K	PR 48:3 15865:3			
Pigment Red 48:4	PR484K	PR 48:4 15865:4			
Pigment Red 53:1	PR531K	PR 53:1 15585:1			
Pigment Red 57:1	PR571K	PR 57:1 15850:1			
Pigment Red 112	PR1120	PR 112 12370			
Pigment Red 122	PR1220	PR 122 73915			
Pigment Red 146	PR1460	PR 146 12485			
Pigment Red 170 F3RK	PR1703	PR 170 F3RK 12475			
Pigment Red 170 F5RK	PR1705K	PR 170 F3RK 12475			

Properties												Applications									
Density (g/cm ³)	Oil Absorption (g/100g pig + 1 g oil)	Fastness to Acid 5%	Fastness to Alkal 5%	Light Fastness (h)	Weather Resistance (h)	Heat Stability (°C)	Alkali Stability (h)	Wear Resistance	Grinding	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic
1.4	35	4	4	7	5	150	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.8	45	2	4	6	4.5	240	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.7	45	2	4	6	4.5	240	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.6	36	2	4	6-7	4.5	220	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.6	36	1	2	4	3	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5	38	2	4	5	3	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5	42	1	3	5	3	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.4	35	5	4	7	5	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5	55	5	5	8	5	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5	33	5	5	6	4	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5	40	5	5	8	5	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.6	35	5	5	7	5	230	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• Major Use • Potential Use - Not Recommended

ALLIANCE ORGANICS LLP					
	Product Code	C.I. Name & C.I. No.	Mass Tone 1:1	Tint Tone 1:10 TiO2	
Allomont Azo Pigments - Violet					
Pigment Violet 19	PV1901	PV 19 73900			
Pigment Violet 23	PV2301	PV 23 51319			
	Product Code	C.I. Name & C.I. No.	Mass Tone 1:1	Tint Tone 1:10 TiO2	
Allomont High Performance Pigments					
Pigment Yellow 139	HPY139	PY 139 56298			
Pigment Yellow 151	HPY151	PY 151 13980			
Pigment Orange 36	HPO36	PO 36 11780			
Pigment Orange 64	HPO64	PO 64 12760			
Pigment Red 254	HPR254	PR 254 56110			

Properties												Applications									
Density (g/cm ³)	Oil Absorption (g/100g pig + 1 g oil)	Fastness to Acid 5%	Fastness to Alkal 5%	Light Fastness (h)	Weather Resistance (h)	Heat Stability (°C)	Alkali Stability (h)	Wear Resistance	Grinding	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic
1.5	65	5	5	7-8	4	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.5	50	4	4	6	5	250	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Properties												Applications									
Density (g/cm ³)	Oil Absorption (g/100g pig + 1 g oil)	% Soluble in	SO ₂ Resistance	Light Fastness (h)	Weather Resistance (h)	Heat Stability (°C)	Alkali Stability (h)	Wear Resistance	Grinding	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic
1.7	41	5	4	8	5	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.6	48	5	3	8	5	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.6	45	-	-	8	5	160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.59	55	-	-	5-6	-	180	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1.6	48	-	-	8	5	200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• Major Use • Potential Use - Not Recommended

ALLIANCE ORGANICS LLP					
	Product Code	C.I. Name & C.I. No.	Mass Tone 1:1	Tint Tone 1:10 TiO2	
SO2 Resistance Chrome Pigments					
Lemon Chrome	3415	PY34 77603			
Middle Chrome	3425	PY 34 77600			
Scarlet Chrome	4015	PR 104 77605			
Synthetic Iron Oxide Pigments					
Iron Oxide Yellow	IY042	PY 42 77492			
Iron Oxide Red	IR101	PR 101 77491			
Iron Oxide Brown	IB001	7660			
Iron Oxide Black	IOB002	PB 11 77330			
Iron Oxide Green	COG017	PG 17 77288			

Properties												Applications									
Density (g/cm ³)	Oil Absorption (g/100g pig + 1 g oil)	Fastness to Acid 5%	Fastness to Alkal 5%	Light Fastness (h)	Weather Resistance (h)	Heat Stability (°C)	Alkali Stability (h)	Wear Resistance	Grinding	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic	Coating	Automotive Refinish	Plastic
26	4-5	7-8	4-5	260	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
26	4-5	7-8	4-5	270	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
24	4-5	7-8	4-5	260	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
36	-	8	5	160	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
25	-	8	5	300	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15-25	-	8	8	120	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20-30	-	8	8	120	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
22	-	8	5	800	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

• Major Use • Potential Use - Not Recommended



ALLOMENT | ALLOPLAST PIGMENT POWDERS

Phthalocyanine Pigments | Azo Pigments
Ultramarine Pigments | Inorganic Pigments

For Inks, Paints & Coatings and Plastics

COMPANY PROFILE



INTRODUCTION

ALLIANCE ORGANICS LLP is a professionally managed company with a proven track record, with the main objective of manufacturing and exporting various types of Pigments for Plastics, Paints & Inks applications.

MANUFACTURING ACTIVITY

The pigment powder manufacturing plant is situated in state of Maharashtra (India) and Saykha in Gujarat. The plant is well equipped with all modern production capacities.

PRODUCT RANGE

- 1 PHTHALOCYANINE PIGMENTS
- 2 COPPER PHTHALOCYANINE CRUDE (CPC)
- 3 AZO PIGMENTS
- 4 INORGANIC PIGMENTS
- 5 ULTRAMARINE BLUE PIGMENTS

QUALITY POLICY

ALLIANCE ORGANICS LLP is committed to deliver Quality & Eco-Friendly products, Economic & Efficient Services to benefit our customers to achieve customer satisfaction.

ALLIANCE ORGANICS LLP follows the concept that Quality creates value and grows with customer needs for mutual benefit to promote international competitiveness for each other. Customer needs are the corner stone on which our quality policy is based.


Our customers have highly appreciated this policy and rewarded us with success.

APPLICATION



Clean, bright pigments, with very soft texture and outstanding technical properties like light, weather, chemical & solvent fastness. These pigments can be used for various applications with ease as below.



ALLIANCE ORGANICS LLP					
	Product Code	C.I. Name & C.I. No.	Mass Tone 1:1	Tint Tone 1:10 TiO2	
Allochrom Phthalocyanine Pigments for Inks					
Pigment Alpha Blue GX	1501	PB 15:0 74160			
Pigment Alpha Blue AG	1512	PB 15:1 74160			
Pigment Blue OF-X	1531	PB 15:3 74160			
Pigment Blue PP-X	1532	PB 15:3 74160			
Pigment Blue SQ-X	1533	PB 15:3 74160			
Pigment Blue PP-XG	1534	PB 15:3 74160			
Pigment Blue SB-X	1541	PB 15:4 74160			
Pigment Green GWB	732	PG 7 74260			
Pigment Green NIK	733	PG 7 74260			

Fastness Properties	Applications														
	Paste Inks						Liquid Inks								
Migration	Light Fastness	Sheet Fed	HeatSet	Coilcoat	Screen	Mass Dico	UV Curing	Water Based	NC Alcohol	NC Acetone	Polyurethane	PdBi	Liquid Inkjet	PO Lamination	24 hours
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20	●	●	●	●	●	●	●	●	●	●	●	●	●	●
US	20														