

Turn over a new leaf.

And change your dispersion supplier to PAN Technology, Inc.

For over 60 years, Pan Technologies, Inc. has been committed to meeting their customer's challenges. We provide manufactured excellence for a variety of industries with our PanTINT Liquid and Chip Dispersions for water-borne and non-aqueous coatings and inks.

And if you need to be GREEN, we can offer you Zero VOC water borne colorants and 100% solids chip dispersions in a wide range of pigments.

PAN has earned its reputation with **on-time deliveries, laboratory tech services and customer-service support.** So turn over a new leaf and use a better dispersion supplier. Pan Technologies, Inc. Call us or visit our web site.

PanTINT Dispersions...manufactured excellence.



Pan Technology, Inc. • 117 Moonachie Avenue • Carlstadt, NJ 07072 • Ph: 201.438.7878 • 800.722.3507 • www.pantekinc.com

Pan Technology, Inc. is certified as meeting the requirements of the ISO 9001:2000 standard.

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Our History

Pan Technology, Inc. is a privately held corporation manufacturing pigment dispersions, specialty inks, coatings, and related specialty products. The company was founded in 1949 as a manufacturer of high performance industrial coatings. Since then we have grown to become a manufacturer of all types of pigment dispersion in both liquid and 100% solids chip phases.

Since November 2004 Pan Technology has been certified as meeting the standards of [ISO 9001:2008](#).

Our Products

We provide the highest quality dispersions of the most difficult to process pigments, such as transparent iron oxide, high jet carbon black and all varieties of organic pigments. And we make these dispersions in just about any resin system a client would prefer. Of course, we also do the easy to disperse pigments!

Our dispersions are used in such diverse applications as conventional and low VOC industrial, OEM and architectural coatings, solvent and water reducible packaging inks, UV and EB cured coatings, digital printing inks and adhesives.

Our Promise

At Pan Technology, we take pride in delivering everything on time and on specification. Our knowledgeable sales and laboratory personnel work closely with our clients to develop products tailored to fit their specific needs. Once a product, our production facility has the flexibility to manufacture batch sizes ranging from 15 gallons up to 2,000 gallons.

Give our Customer Service department a call, or contact us via our website: www.pantechology.com. We are committed to helping you meet your colorant and pigment dispersion needs.

PanTINT® Dispersions...Manufactured Excellence

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Markets we serve...

Architectural and Maintenance Coatings – conventional and zero VOC aqueous dispersions and solvent based dispersions for in-plant tinting. Pan Technology offers an extensive range of standard products in addition to customized dispersions based on client specifications. Custom blends for advanced color matching and toll manufacturing services are also available.

Industrial Coatings – conventional and zero VOC aqueous dispersions, solvent based acrylic and alkyd liquid dispersions as both standard and custom colorants. Standard and custom chip dispersions for both aqueous and solvent applications

Automotive Finishes – chip dispersions for exterior OEM and refinish as well as liquid colorants and topcoats for automotive interiors.

Wood Finishes – conventional and zero VOC aqueous dispersions, solvent based acrylic and alkyd dispersions of earth colors and transparent iron oxides. Color masterbatches for water and solvent based interior and exterior wood stains.

Wallcovering/ Floorcovering/ Pool linings – gravure inks and topcoats formulated with exterior lightfastness and chemical resistant pigments for PVC film printing and coating. Our clear coatings are available in all levels of gloss.

Hot Stamping Inks – PVC, acrylic and nitrocellulose concentrates and inks for hot stamping foils.

Gravure printing – solvent and water based inks for laminating films, gift wrap, specialty packaging

Calendered PVC Plastics – plasticizer paste dispersions for coloring PVC film or plastisol.

Adhesives – custom manufactured dispersions of colorants, flame retardants and other specialty additives.

Cosmetics – custom formulated clear and pigmented nail lacquers; nail polish removers.

Foam – custom pigment dispersions in carriers suitable for coloring foams.



Pan's Quality Policy

It is our policy to strive to deliver product and service to our customers on time, based on mutually agreed upon requirements. Through our Sales, Customer Service, Technical and Production Departments and with continual training and improvement, we will enhance our ability to meet customer requirements.

The management of Pan Technology is committed to establishing and achieving its Quality Objectives in order to ensure and enhance customer satisfaction. Our ISO 9001:2008 certification is just one example of our Company's continuous quality improvement process. It insures you, the customer, that we are not satisfied until you are satisfied.

Robert Rossomando

President



PAN Product Line Summary

Solid Chip Dispersions - Available in resinated and resin free versions.

Product Line	Vehicle System	Application
PanTINT 2	Aqueous	Water Based Coatings and Inks
PanTINT 5	Non-aqueous Universal	Powder Coatings, UV and EB cured applications
PanTINT 10	Homopolymer Vinyl	PVC Film
PanTINT 11	Copolymer Vinyl	Vinyl Coated Fabrics, Wall Covering and Decals
PanTINT 12	Modified Thermoplastic Acrylic	Solvent and 100% Solids Coatings, Plastics
PanTINT 18	Aqueous	Water Based Inks

Liquid Dispersions, Topcoats – Available in solvent and water-based, resinated and resin free versions.

Product Line	Vehicle System	Application
PanTINT 52	Vinyl Inks , Topcoats (HAPs free)	Upholstery, Laminating, Wall Covering Inks
PanTINT 54	Vinyl Inks, Topcoats	Upholstery, Laminating, Wall Covering Inks, Hot stamping foils
PanTINT 60	Nitro Cellulose Dispersions – Liquid	Printing Inks and Furniture Finishes, Nail Polish Topcoats
PanTINT 70 PanTINT 72	Plasticizer Dispersions – Paste Phthalate-free formulations (72)	Vinyl film, Plastisol, Plastics
PanTINT 86	Universal Solvent Acrylic Dispersion	Specialty Coatings, Industrial, Maintenance Finishes, Adhesives,
PanTINT 87	Alkyd Dispersions	Trade Sale Paints, Wood Stains
PanTINT 90	Aqueous Dispersion	Trade Sale Paints, Wood Stains, Water-based Coatings
PanTINT 94	Aqueous Dispersion – APE free	Trade Sale Paints, Wood Stains, Water-based Coatings
PanTINT 95	Aqueous (Styrenated Acrylic)	Water Based Printing Inks



Product Line Descriptions

PanTINT 2 Resin free, aqueous chip dispersions are 100% solids. Zero VOC and APE free. These extremely easy to disperse chips are ideal for coatings and packaging inks applications.

PanTINT 5 Solvent free colorants designed for use in powder coatings and UV and EB cured applications. These dispersions are granulated for ease of handling and incorporation with minimal dusting.

PanTINT 10 Homopolymer Chip dispersions are 100% solids pigment dispersions in a plasticized vinyl. These products are available in random chip or powder and can be used for coloring vinyl film.

PanTINT 11 Vinyl Copolymer chip dispersions are 100% solids pigment dispersions in a solution grade vinyl copolymer resin. These products are available in random chip or powder and can be used for making vinyl inks or coatings. Chip dispersions generally provide improved strength, transparency and gloss over liquid dispersions. This is more apparent with high performance organic pigments. These products are available as solutions (PanTINT 54, 52 HAPS free).

PanTINT 18 Water soluble Acrylic chip dispersions are 100% solids pigment dispersion in water soluble styrenated acrylic resin. These products can be used to formulate water based inks and coatings which require excellent transparency and gloss. These chips are soluble in a combination of water, alkali (ammonia or another amine). Co-solvents such as alcohols may also be used. These products are available in chip, powder or solutions (PanTINT 95).

PanTINT 52 HAPS FREE Vinyl Copolymer Pigment Dispersions are color concentrates made with solution grade vinyl resins. They can be readily formulated into inks and coatings without the time and energy required to dissolve chips. Most pigments are bleed resistant and have light fastness properties in excess of 200 hours. Custom dispersions of other pigments and special inks for printing vinyl pool liners are available upon request.

PanTINT 54 Vinyl Copolymer Pigment Dispersions are color concentrates made with solution grade vinyl resins. They can be readily formulated into inks and coatings without the time and energy required to dissolve chips. Most pigments are bleed resistant and have light fastness properties in excess of 200 hours. Custom dispersions of other pigments and special inks for printing vinyl pool liners are available upon request.

PanTINT 60 Nitrocellulose Pigment Dispersions. They are prepared in heavy-duty dispersion equipment yielding dispersions of exceptional tint strength. They find use in printing inks and coatings for use on film and foil stock. Inks prepared with PanTINT 60 pigment dispersions will be exceptionally glossy and transparent. They have been developed for use in printing inks where those properties are necessary along with superior rheological properties. These pigment dispersions can be formulated into coatings and inks equal to chips, without the time and energy required to dissolve chips. The pigments in this line have been chosen that are normally used for packaging applications.



PanTINT 70 Pigment Plasticizer Dispersions are pigment dispersions used for coloring plastisol, calendered and extruded vinyl products. In addition, these dispersions can be used for tinting systems such as Nitrocellulose and Vinyl Lacquers.

PanTINT 72 Phthalate free version of the PanTINT 70 Series

PanTINT 86 Industrial Universal Non-Aqueous Pigment Dispersions. These products are high strength dispersions in a specially formulated modified thermoplastic solvent based acrylic with broad compatibility in various non-aqueous systems. Typical uses are in Machinery and Implement Enamels, Lacquers, Marine Coatings, Aerospace Coatings, Industrial and Maintenance Coatings, Aerosol Paints, Automotive Refinish Coatings, and Adhesive Tapes. These products are typically compatible in Acrylics, Alkyds, CAB, Cellulosic lacquers, Chlorinated Rubber, Two Component Epoxy, Epoxy Ester, Polyesters, Polyurethane, Two Component Polyurethane, Alkyd Melamine and Vinyl Lacquers. A wide selection of standard products are available as well as custom colors on request.

PanTINT 87 High strength dispersions in a modified long oil alkyd designed for maximum compatibility for tinting solvent based paints and coatings. These products are typically used in solvent thinned trade sale paints, interior and exterior wood stains, machinery and implement enamels, Industrial coatings, automotive refinish coatings, aerosol paints, aerosol coatings and maintenance coatings. These dispersions are typically compatible with alkyds, polyesters, nitrocellulose, phenolic and vinyl toluene alkyd. A wide selection of standard products are available as well as custom colors on request.

PanTINT 90 Water Based high strength aqueous dispersions formulated to have broad compatibility in a wide variety of conventional and low VOC water based systems. These products are typically used in Water based/Emulsion Paints, Machinery and Implement Enamels, Industrial Coatings, Automotive Refinish Coatings, Aerosol Paints, Aerospace Coatings, Maintenance Coatings (spray & brush types), Rubber Latex, Water Based Adhesives and Air dry and Baking systems. These dispersions are typically compatible with WR Acrylics, Styrene Butadiene, Styrene Acrylic, WR Alkyd, WR Polyester, WR Epoxy, Polyvinyl Acetate and Polyurethane PUD. A wide selection of standard products are available as well as custom colors on request.

PanTINT 94 APE free version of the PanTINT 90 Series

PanTINT 95 Aqueous Resin based Pigment Dispersions. These include pastes manufactured using the PanTINT 18 Chips which can be used for water flexo inks. Also included are specialty formulated products for various applications including specialty coatings. A selection of standard products are available as well as custom colors on request.

PanTINT Specialty Dispersions can be manufactured to customer specifications. Manufacturing capabilities include virtually any pigment and vehicle combination including water, solvent based and 100% solids systems. All specialty products will require minimum annual consumption and order quantities.



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PanTINT® 5 Series Chip Dispersions **for Radiation Cured and Powder Coatings**

Description

PanTINT® 5 Series Chip Dispersions are solvent-free colorants designed for use in powder coatings and UV and EB cured applications. They are based on a proprietary dispersing vehicle which provides exceptional compatibility, light fastness and heat resistance.

PanTINT 5 Series Dispersions are available in a wide range of colors for most tinting and masstone applications. Custom dispersions of additional pigments can be produced to meet individual client requirements. The manufacturing process used to manufacture PanTINT 5 Series colorants insures that the pigments have been dispersed to an exceptionally fine particle size for optimum color strength and transparency.

PanTINT 5 Series Dispersions are granulated for ease of handling and incorporation with minimal dusting. They are stable under normal ambient conditions and will not sinter or deteriorate on aging.

Recommended Use

Radiation Cured Coatings: The resin used in PanTINT 5 Series is readily soluble in most acrylate monomers and oligomers for easy use in UV and EB cured coatings. PanTINT 5 Colorants can be cut in to a reactive monomer to make a concentrated liquid colorant, or directly in to the finished coating with moderate agitation. Unlike colorants made by dispersing pigment directly into monomer, PanTINT 5 Chip Dispersions are stable under normal ambient conditions with no significant changes on aging. Care should be taken when mixing into monomer to prevent temperature increase that may shorten the shelf life of liquid colorant or the finished coating.

Powder Coatings: PanTINT 5 Chip Dispersions can be metered in to the extruder in the same manner as simple pigments. The chip size is controlled for ease of incorporation with minimal dusting. Ultimate pigment particle size is much finer than can be achieved in the normal extruder dispersion process providing superior transparency, greater color strength at equal pigment concentration and higher gloss in thin film applications.

Pan Technology, Inc. is ISO 9001 Certified

Technical information regarding the composition, properties or use of products described herein is believed to be reliable. However, no representation or warranty is made with respect thereto except as made by Pan Technology in writing at the time of sale. Tests should be carried by qualified personnel and performance should be verified to insure suitability prior to use. 7/19/06

Typical Values

Code	Pigment Type	CI Name	Composition % by Weight		Composition % by Volume		Density	
			Pigment	Vehicle	Pigment	Vehicle	WT/GAL	SP. GR.
5B1234	Phthalo Blue RS	B15:2	55.0	45.0	42.0	58.0	11.55	1.38
5B1236	Phthalo Blue GS	B15:3	55.0	45.0	45.8	54.2	10.77	1.29
5G1735	Phthalo Green	Gr7	55.0	45.0	46.6	53.4	10.61	1.27
5K1332	Tinting Black	BK7	60.0	40.0	47.4	52.6	11.86	1.42
5K1333	Masstone Black	BK7	60.0	40.0	46.4	53.6	11.61	1.36
5Q1954	DNA Orange	OR5	55.0	45.0	43.3	56.7	11.43	1.37
5R1602	Transparent Red Oxide	R101	60.0	40.0	26.3	73.7	16.42	1.97
5R1650	Red Oxide Medium	R101	70.0	30.0	36.1	63.9	19.34	2.32
5R1631	Red Oxide Light	R101	70.0	30.0	33.8	66.2	20.13	2.41
5R1629	Naphthol Red BS	R170	55.0	45.0	52.4	47.6	9.62	1.15
5R1630	Lithol Rubine	R57:1	55.0	45.0	44.6	55.4	11.00	1.32
5R1640	Naphthol Red YS	R176	55.0	45.0	48.6	51.4	10.17	1.22
5W1108	Titanium Dioxide-Chalk Resistant	WH6	65.0	35.0	33.9	66.1	17.17	2.06
5Y1435	Monoazo Yellow GS	Y97	55.0	45.0	48.7	51.3	10.34	1.24
5Y1478	Transparent Yellow Oxide	Y42	60.0	40.0	29.7	70.3	15.67	1.88
5Y1413	Isoindoline Yellow	Y139	55.0	45.0	44.5	55.5	10.94	1.31
5Y1442	Yellow Oxide	Y42	70.0	30.0	37.9	62.1	18.75	2.25
5Y1464	AAOT Yellow	Y14	55.0	45.0	48.7	51.3	10.32	1.24
5Y1428	Diarylide Yellow RS	Y83	55.0	45.0	49.1	50.9	10.16	1.22

MCF 3/18/09

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PAN TECHNOLOGY, INC.



PanTINT 12 Series

Chip Dispersions in Universal Acrylic for Non-Aqueous Applications

DESCRIPTION

Solvent-free chip dispersions for use in solvent borne and radiation cured coatings and inks. PanTINT 12 Colorants are based on a unique modified thermoplastic acrylic resin with exceptionally broad compatibility. Pigments used in the PanTINT 12 Series have been selected to meet the durability and transparency requirements of most high performance applications.

RECOMMENDED USE

PanTINT 12 Colorants can be used for tinting and masstone applications in most solvent borne ambient cured and baking finishes. The acrylic resin used is sufficiently soluble in acrylate monomer to allow their use in UV and EB cured coatings and inks.

- Appliance Finishes
- Furniture Finishes
- Digital Printing Inks
- Gravure Inks
- Machinery and Implement Enamels
- Lacquers
- Aerospace Coatings
- Industrial Maintenance Coatings
- Aerosol Paints
- Transportation Finishes
- Automotive Refinish Coatings
- Marine Coatings
- Adhesive Tapes

COMPATIBILITY

- Acrylic
- Vinyl Acrylic
- Acrylate Monomer and Oligomer
- Short Oil Alkyd
- Vinyl Toluene Alkyd
- Silicone Alkyd
- Alkyd Urea
- Alkyd Melamine
- Cellulosic Lacquer
- Vinyl Lacquer
- CAB
- Cellulosic Lacquers
- Chlorinated Rubber
- Two Component Epoxy
- Epoxy Ester
- Polyester
- Single and Two Component Polyurethane



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PanTINT 12

Acrylic Chip Dispersions for High Performance Non-Aqueous Coatings and Inks

Typical Values

Code	Pigment Type	CI Name	COMPOSITION % BY WEIGHT		COMPOSITION % BY VOLUME		DENSITY	
			Pigment	Resin	Pigment	Resin	WT/GAL.	SP. GR.
12B1245	Phthalo Blue RS, NCF	B 15.2	42.0	58.0	32.9	67.1	10.62	1.27
12B1264	Phthalo Blue GS	B 15.3	42.0	58.0	33.8	66.2	10.48	1.26
12G1740	Phthalo Green YS	G 36	37.0	63.0	19.4	80.6	11.81	1.41
12K1313	Tinting Black	Bk 7	50.0	50.0	38.0	62.0	11.42	1.37
12K1367	Masstone Black	Bk 7	50.0	50.0	38.0	62.0	11.42	1.37
12K1366	High Jet Black	Bk 7	30.0	70.0	20.7	79.3	10.35	1.24
12Q1930	Diarylide Orange	O 34	40.0	60.0	35.7	64.3	9.89	1.19
12R1633	Napthol Red BS	R 170	40.0	60.0	37.9	62.1	9.56	1.15
12R1642	Red Oxide Light	R 101	65.0	35.0	29.0	71.0	18.61	2.23
12R1659	Transparent Red Oxide	R 101	55.0	45.0	23.1	76.9	15.73	1.89
12R1665	Lithol Rubine	R 57.1	42.0	58.0	32.4	67.6	10.70	1.28
12V1839	Carbazole Violet	V 23	23.0	77.0	18.5	81.5	9.81	1.18
12W1134	Titanium Dioxide - Chalk Resistant	WH 6	65.0	35.0	34.1	66.2	17.28	2.07
12Y1462	Transparent Yellow Oxide	Y 42	55.0	45.0	26.2	73.8	15.10	1.81
12Y1431	Mono Azo Yellow GS	Y 97	40.0	60.0	34.5	65.5	10.06	1.21
12Y1438	Isoindoline Yellow	Y 139	30.0	70.0	22.7	77.3	10.22	1.22

INCORPORATION

PanTINT 12 Colorants can often be incorporated in solvent thinned coatings by simple stirring. The most effective solvents for rapid solution of the carrier resin are ketones, aromatics, esters and glycol ethers. Addition of 5% aromatic to aliphatic solvents can be enough to achieve complete solution.

For optimum results, first begin mixing of the coating base and then add PanTINT 12 Colorant under continuous agitation. Vigorous agitation and elevated temperatures may reduce the time required for complete solution.

Other products can be formulated by special request.
Call 1-800-722-3507 for further information and samples.

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PAN TECHNOLOGY, INC.



PanTINT 86 Series

Industrial Universal Non-Aqueous Pigment Dispersions

DESCRIPTION

Concentrated pigment dispersions for use in solvent borne high performance coatings. PanTINT 86 Colorants are based on a unique thermoplastic acrylic vehicle with exceptionally broad compatibility. Pigments used in the PanTINT 86 Series have been selected for superior lightfastness, and resistance to heat and chemical attack.

RECOMMENDED USE

PanTINT 86 Colorants can be used for tinting and masstone applications in most solvent borne ambient cured and baking finishes including

- Appliance finishes
- Coil coatings
- Furniture finishes
- Machinery and Implement Enamels
- Lacquers
- Marine Coatings
- Aerospace Coatings
- Industrial Maintenance Coatings
- Aerosol Paints
- Transportation finishes
- Automotive Refinish Coatings
- Adhesive Tapes

COMPATIBILITY

- Acrylic
- Vinyl Acrylic
- Long Oil Alkyd
- Short Oil Alkyd
- Vinyl Toluene Alkyd
- Silicone Alkyd
- Alkyd Urea
- CAB
- Cellulosic Lacquer
- Chlorinated Rubber
- Two Component Epoxy
- Epoxy Ester
- Polyesters
- Polyurethane
- Two Component Polyurethane
- Alkyd Melamine
- Acrylic
- Vinyl Lacquer



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PanTINT 86 Acrylic Pigment Dispersions for High Performance Solventborne Coatings

Typical Values

Code	Pigment	CI Name	COMPOSITION % BY WEIGHT			COMPOSITION % BY VOLUME			DENSITY		VOC	
			Pigment	Vehicle	Volatiles	Pigment	Vehicle	Volatiles	LB/GAL	SP. GR.	LB/GAL	GR/L
86B1211	Phthalo Blue RS NCNF	B 15:2	20.0	29.0	51.0	12.7	27.1	60.2	8.56	1.03	4.37	511
86B1221	Phthalo Blue RS NCNF LC	B 15:2	23.2	31.6	45.2	13.7	30.6	55.7	8.94	1.07	4.04	473
86B1220	Phthalo Blue GS	B 15:4	22.0	27.8	50.2	14.2	26.2	59.6	8.62	1.03	4.33	507
86G1722	Phthalo Green	GR 7	23.6	30.2	46.2	12.5	30.3	57.2	8.98	1.08	4.15	485
86G1724	Phthalo Green YS	GR 36	24.0	25.8	50.2	9.9	26.2	63.9	9.24	1.11	4.64	543
86K1305	Tinting Black	BK 7	25.0	24.2	50.8	14.8	23.1	62.1	8.88	1.06	4.51	528
86K1320	High Jet Black	BR 7	18.0	28.8	53.2	10.4	26.8	62.8	8.66	1.04	4.61	539
86N1549	Raw Umber	BR 7	52.4	12.9	34.7	23.5	17.4	59.1	12.36	1.48	4.29	502
86N1507	Burnt Umber LC	BR 7	49.0	12.7	38.3	21.1	16.8	62.1	11.78	1.41	4.51	528
86N1550	Burnt Umber	BR 7	50.0	12.5	37.5	21.7	16.6	61.7	11.94	1.43	4.48	524
86Q1917	Diarylide Orange	OR 34	22.0	26.3	51.7	14.5	24.7	60.8	8.54	1.02	4.41	517
86R1616	Naphthol Red BS	R 170	20.0	28.0	52.0	14.7	25.7	59.6	8.32	1.00	4.33	507
86R1618	Naphthol Red YS	R 170	22.0	26.3	51.7	15.7	24.3	60.0	8.42	1.01	4.35	509
86R1641	Red Oxide Light	R 101	53.5	14.4	32.1	17.7	21.5	60.8	13.74	1.65	4.42	517
86R1634	Transparent Red Oxide	R 101	25.3	28.1	46.7	6.7	30.4	62.9	9.89	1.18	4.61	540
86R1680	Quinacridone Red	V 19	19.0	28.1	52.9	12.1	26.1	61.8	8.48	1.02	4.49	525
86V1819	Quinacridone Violet	V 19	12.0	26.3	61.7	7.7	23.4	68.9	8.11	0.97	5.00	586
86V1875	Carbazole Violet	V 23	12.0	26.3	61.7	8.0	23.3	68.7	8.08	0.97	4.99	583
86W1100	Titanium Dioxide - Chalk resistant	WH 6	65.0	15.4	19.6	31.3	25.8	42.9	15.87	1.90	3.11	364
86Y1433	Yellow Oxide	Y 42	55.0	15.3	29.7	21.7	23.1	55.2	13.48	1.62	4.00	469
86Y1498	Yellow Oxide LC	Y 42	54.2	14.6	31.2	20.9	21.8	57.3	13.34	1.60	4.16	487
86Y1436	Transparent Yellow Oxide	Y 42	27.0	30.0	43.0	9.7	32.5	57.8	9.88	1.18	4.25	497
86Y1407	Benzimidazolone Yellow GS	Y 151	38.3	25.6	36.1	27.8	27.5	44.7	9.39	1.13	3.39	397
86Y1423	Isoindoline Yellow	Y 139	20.0	26.3	53.7	12.6	24.5	62.9	8.50	1.02	4.56	534

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PAN TECHNOLOGY, INC.



PanTINT 87 Series

Alkyd Pigment Dispersions for Solvent Based Paints, Finishes and Stains

DESCRIPTION

Concentrated pigment dispersions based on a modified long oil alkyd for tinting and masstone applications in solvent based architectural paints and light industrial coatings. PanTINT 87 Colorants have exceptionally broad compatibility, low viscosity and excellent stability

RECOMMENDED USE

PanTINT 87 Colorants can be used in many solvent thinned ambient cured paints and low temperature cure baking finishes including

- Architectural paints and trim enamels
- Machinery and implement enamels
- Wood finishes
- Machinery and Automotive refinish coatings
- Aerosol paints
- Aerospace coatings
- Maintenance coatings

COMPATIBILITY

- Long oil alkyd
- Short oil alkyd
- Medium oil alkyd
- Silicone alkyd
- Alkyd urea
- Oil modified urethane
- Vinyl toluene alkyd
- Styrenated alkyd
- Polyester
- Nitrocellulose
- Phenolic
- Vinyl toluene alkyd
- Alkyd modified urethane



Technical information regarding the composition, properties or use of products described herein is believed to be reliable. However, no representation or warranty is made with respect thereto except as made by Pan Technology in writing at the time of sale. Tests should be carried by qualified personnel and performance should be verified to insure suitability prior to use. 4/29/03

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ISO 9001:2000 Certified

PanTINT 87 Alkyd Pigment Dispersions for Architectural and Light Industrial Applications

Typical Values

			COMPOSITION % BY WEIGHT			COMPOSITION % BY VOLUME			DENSITY		VOC less Water	
Code	Pigment	CI Name	Pigment	Vehicle	Volatiles	Pigment	Vehicle	Volatiles	LB/GAL	SP. GR.	LB/GAL	GR/L
87B1204	Phthalo Blue RS	B 15:2	22.0	31.8	46.2	11.9	29.7	58.4	8.20	0.98	3.79	444
87B1289	Phthalo Blue RS LC	B 15:2	48.9	18.4	32.7	28.4	21.1	50.5	10.03	1.20	3.27	383
87B1250	Milori Blue	B 27	33.5	26.9	39.6	18.7	27.4	53.9	8.85	1.06	3.51	410
87G1705	Phthalo Green	GR 7	26.0	26.9	47.1	13.1	25.9	61.0	8.38	1.00	3.95	462
87K1383	Tinting Black	BK 7	30.0	23.8	46.2	16.7	22.7	60.6	8.38	1.00	3.87	452
87K1350	Masstone Black	BK 7	21.2	33.4	45.4	11.5	30.8	57.5	8.15	0.98	3.70	433
87K1362	Bone Black	BR 9	30.0	29.3	40.7	13.9	30.2	55.9	8.96	1.07	3.65	427
87N1535	Burnt Umber	BR 7	45.0	15.8	39.2	16.6	19.3	64.1	10.60	1.27	4.15	486
87N1577	Burnt Sienna	BR 7	52.0	16.8	31.2	20.1	23.1	56.8	11.82	1.42	3.69	432
87N1582	Raw Umber	BR7	43.0	25.0	32.0	16.7	30.9	52.4	10.67	1.28	3.41	400
87Q1901	DNA Orange	OR 5	35.0	29.3	35.7	21.4	30.1	48.5	8.87	1.06	3.16	370
87Q1979	Diarylde Orange	OR 34	25.0	35.3	39.7	17.1	33.4	49.5	8.17	0.99	3.24	379
87R1601	Red Oxide Light	R 101	60.0	22.4	17.6	21.5	38.6	39.9	14.97	1.79	2.64	308
87R1602	Red Oxide Medium	R 101	63.0	19.9	17.1	24.0	35.6	40.4	15.57	1.87	2.66	311
87R1682	Red Oxide Medium Dark	R 101	66.0	19.2	14.8	28.3	35.5	36.2	16.10	1.93	2.38	279
87R1600C	Transparent Red Oxide	R 101	36.0	24.5	39.4	10.8	28.6	60.6	9.98	1.20	3.93	461
87R1620	Naphthol Red YS	R 188	25.0	26.0	49.0	16.5	23.7	59.8	7.92	0.95	3.88	454
87R1625	Naphthol Red BS	R 170	27.0	35.0	38.0	19.6	32.9	47.5	8.17	0.98	3.11	363
87R1630	Quinacridone Red	V 19	20.0	35.2	44.8	12.1	32.6	55.3	8.06	0.97	3.61	423
87R1664	Toluidine Red Medium Light	R 3	35.0	29.9	35.1	25.4	29.2	45.4	8.47	1.02	2.97	348
87R1655	Lithol Rubine	R 57:1	20.7	34.8	44.5	12.2	32.4	55.4	8.11	0.97	3.61	422
87V1801	Carbazole Violet	V 23	15.9	34.7	49.4	10.1	31.0	58.9	7.76	0.93	3.83	449
87V1810	Quinacridone Violet	V 19	20.0	37.3	42.7	13.1	34.5	52.4	8.03	0.96	3.43	401
87W1150	Titanium Dioxide	WH 6	65.0	17.6	17.4	29.5	30.5	40.0	15.14	1.81	2.63	308
87Y1406	Yellow Oxide	Y 42	62.2	14.8	23.0	25.7	24.4	49.9	14.12	1.69	3.24	380
87Y1400C	Transparent Yellow Oxide RS	Y 42	31.4	32.0	36.6	10.9	35.4	53.7	9.59	1.15	3.51	410
87Y1403	Transparent Yellow Oxide GS	Y 42	31.0	29.3	39.7	9.3	32.7	58.0	9.54	1.14	3.79	443
87Y1420	Monoazo Yellow	Y 97	26.3	34.3	39.4	18.7	32.3	49.0	8.16	0.98	3.21	376
87Y1430	Isoindoline Yellow	Y 139	25.0	34.1	40.9	15.3	32.4	52.3	8.27	0.99	3.38	395
87Y1477	Hansa Yellow	Y 74	30.0	29.3	40.7	20.8	27.8	51.4	8.24	0.99	3.35	392

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PanTINT® 90 Series

Aqueous Pigment Dispersions for High Performance Paints and Coatings

DESCRIPTION

High strength colorants with broad compatibility in a wide variety of conventional and low VOC water based systems. PanTINT 90 Colorants are based on a proprietary combination of surface active agents for exceptionally broad compatibility and stable viscosity for easy use. They will not dry out in part full containers and have little or no effect on gloss, cure time, resistance to water spotting or exterior durability. They are freeze-thaw stable and will not support the growth of microorganisms

RECOMMENDED USE

PanTINT 90 Colorants can be used for both tinting and masstone applications in most aqueous ambient cured and baking finishes including...

- Architectural coatings
- Appliance finishes
- Wood finishes
- Machinery and Implement Enamels
- Aerosol paints
- Aerospace coatings
- Maintenance coatings
- Rubber latex
- Pressure sensitive adhesives

COMPATIBILITY

Water reducible

- Acrylic
- Alkyd
- Polyester
- Epoxy
- Two component polyurethane

Emulsion

- Acrylic
- Styrene acrylic
- Polyvinyl acrylic
- Polyvinyl acetate
- Styrene butadiene
- Polyurethane PUD



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*PanTINT 95R1600 and 95Y1400 made with acrylic dispersing resin

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PanTINT 90[®] Aqueous Pigment Dispersions

Typical Values

Code	Pigment	CI Name	COMPOSITION % BY WEIGHT			COMPOSITION % BY VOLUME			DENSITY		VOC	
			Pigment	Vehicle	Volatiles	Pigment	Vehicle	Volatiles	LB/GAL	SP. GR.	LB/GAL	GR/L
90B1203	Phthalo Blue RS LC	B 15:0	35.0	6.1	58.9	24.9	6.9	68.2	9.78	1.17	1.67	196
90B1225	Phthalo Blue RS	B 15:2	35.0	6.1	58.4	23.1	7.1	69.8	10.00	1.20	1.75	204
90B1205	Phthalo Blue GS	B 15:3	35.0	6.1	58.4	26.0	6.8	67.2	9.62	1.15	1.59	186
90B1296	Ultramarine Blue	B 29	40.9	6.5	52.0	23.4	8.4	68.2	10.99	1.32	1.91	224
90G1700	Phthalo Green	Gr 7	35.0	6.1	58.4	21.4	7.3	71.3	10.22	1.22	1.86	217
90K1345	Tinting Black	BK 7	35.0	7.1	57.3	23.3	8.3	68.4	10.01	1.20	1.91	223
90K1373	Masstone Black	BK 7	30.0	7.1	62.3	19.5	8.1	72.4	9.74	1.17	2.07	243
90N1556	Raw Umber	BR 7	38.9	8.4	52.7	15.8	11.0	73.2	11.74	1.41	2.17	254
90N1559	Burnt Umber	BR 7	39.6	5.8	54.6	16.8	7.6	75.6	11.70	1.40	2.37	278
90N1504	Transparent Brown Oxide	R 101	30.1	6.4	63.5	8.9	7.0	84.1	11.04	1.32	2.27	266
90Q1933	DNA Orange	OR 5	35.9	6.2	57.9	24.6	7.2	68.2	9.55	1.19	1.70	199
90Q1940	Diarylide Orange	OR 34	38.5	5.9	55.6	30.8	6.5	62.7	9.53	1.14	1.39	163
90R1613	Toluidine Red Medium	R 3	40.0	7.2	52.8	32.6	7.3	60.1	9.52	1.14	1.21	142
90R1615	Toluidine Red Light	R 3	40.0	7.2	52.8	32.8	7.3	59.9	9.50	1.14	1.21	141
90R1652	Red Oxide Light	R 101	60.0	7.9	32.1	23.6	14.7	61.7	16.38	1.96	2.16	253
90R1650	Red Oxide Medium	R 101	55.0	7.9	37.1	21.8	13.4	64.8	14.86	1.78	2.14	251
90R1643	Red Oxide Dark	R 101	68.0	8.9	23.1	30.6	18.9	50.5	18.80	2.25	1.97	2.30
90R1662	Transparent Red Oxide	R 101	32.0	8.4	59.6	9.7	9.5	80.8	11.31	1.36	2.44	285
90R1645	Naphthol Red BS	R 170	25.3	5.1	69.6	20.3	5.4	74.3	9.00	1.08	1.84	215
90R1655	Naphthol Red YS	R 188	35.0	6.1	58.9	27.5	6.7	65.8	9.43	1.13	1.53	179
90R1666	Quinacridone Red	V 19	25.0	5.1	69.9	18.8	5.4	75.8	9.13	1.09	1.94	227
90V1820	Quinacridone Violet	V 19	30.0	6.5	63.5	20.7	7.2	72.1	9.58	1.15	1.93	226
90V1840	Carbazole Violet	V23	18.5	6.0	75.5	13.3	6.3	80.4	8.98	1.08	2.27	261
90W1118	Titanium Dioxide	WH 6	65.0	6.1	28.9	32.3	11.8	55.9	16.57	1.99	1.96	230
90W1123	Titanium Dioxide-Chalk resistant	WH 6	65.0	6.1	28.9	32.5	11.7	55.8	16.49	1.98	1.95	228
90Y1420	Hansa Yellow	Y 74	35.0	6.1	58.9	28.8	6.6	64.6	9.27	1.11	1.47	172
90Y1430	Arylide Yellow	Y 65	31.3	6.4	62.3	24.6	6.9	68.5	9.28	1.11	1.68	196
90Y1436	Yellow Oxide	Y 42	60.0	7.9	32.1	27.4	14.0	58.6	15.59	1.87	1.99	233
90Y1489	Transparent Yellow Oxide	Y 42	40.0	8.7	51.3	17.1	10.4	72.5	11.79	1.41	1.75	205
90Y1476	Benzimidazolone Yellow GS	Y 151	35.0	6.1	58.9	26.0	6.8	67.2	9.62	1.15	1.61	188
The following PanTINT 95 Series colorants are made with acrylic dispersing resin.												
95R1600	Transparent Red Oxide	R 101	22.0	10.9	67.1	6.0	11.7	82.3	10.23	1.23	2.42	283
95Y1400	Transparent Yellow Oxide	Y 42	41.7	11.2	47.1	18.1	14.1	67.8	11.99	1.44	1.71	199
95Y1446	Transparent Yellow Oxide LC	Y 42	41.2	8.2	50.6	15.8	10.4	73.8	12.18	1.46	2.04	238

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PanTINT® 94 Series

Aqueous Pigment Dispersions for High Performance Paints and Coatings

DESCRIPTION

High strength colorants with broad compatibility in a wide variety of conventional, low and zero VOC* water based systems. PanTINT 94 Colorants are based on a proprietary combination of surface active agents for exceptionally broad compatibility and stable viscosity for easy use. They have little or no effect on gloss, cure time, resistance to water spotting or exterior durability. They will not support the growth of microorganisms.

RECOMMENDED USE

PanTINT 94 Colorants can be used for both tinting and masstone applications in most aqueous ambient cured and baking finishes including...

- Appliance finishes
- Machinery and implement enamels
- Transportation coatings
- Industrial maintenance coatings
- Wood finishes
- Aerosol paints
- Aerospace coatings
- Water based adhesives

COMPATIBILITY

Water reducible

- Acrylic
- Alkyd
- Polyester
- Two component epoxy
- Two component polyurethane

Emulsion

- Acrylic
- Styrene acrylic
- Polyvinyl acrylic
- Polyvinyl acetate
- Styrene butadiene
- Polyurethane PUD

CARE AND HANDLING

PanTINT 94 Colorants do not contain any glycol or other co-solvent. Care should be used in handling and storing to prevent freezing and to insure part full containers are properly closed. PanTINT 94 Colorants are generally stable for up to 5 freeze/thaw cycles, but may fail after extended or repeated storage at subfreezing temperatures. If material becomes frozen, remove to warm area and allow to thaw gradually. Mix well to reconstitute. If material returns to a uniform state and does not show any signs of seeding or crystallization, it can be assumed to be fully recovered. A final check for color value and strength will confirm this.



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PanTINT® 94 Aqueous Pigment Dispersions for Low and Zero VOC Applications

Typical Values

Code	Pigment	CI Name	COMPOSITION % BY WEIGHT			COMPOSITION % BY VOLUME			DENSITY		*VOC less Water	
			Pigment	Vehicle	Volatiles	Pigment	Vehicle	Volatiles	LB/GAL	SP. GR.	LB/GAL	GR/L
94B1218	Phthalo Blue RS, NCNF	B 15:2	34.3	6.3	59.4	22.5	6.6	70.9	9.92	1.19	<0.05	< 5
94B1251	Phthalo Blue RS	B 15:1	35.0	6.9	58.1	25.2	7.1	67.7	9.71	1.16	<0.05	< 5
94B1293	Phthalo Blue GS	B 15:3	35.0	6.9	58.1	26.0	7.0	67.0	9.60	1.15	<0.05	< 5
94G1735	Phthalo Green	GR 7	35.0	6.9	58.1	20.3	7.6	72.1	10.35	1.24	<0.05	< 5
94K1390	Tinting Black	BK 7	35.0	7.7	57.3	23.2	8.1	68.7	9.98	1.20	<0.05	< 5
94K1308	Masstone Black	BK 7	30.0	7.8	62.2	19.4	8.1	72.5	9.71	1.16	<0.05	< 5
94K1304	High Jet Black	BK 7	12.5	7.9	79.4	7.4	7.5	85.1	8.90	1.07	<0.05	< 5
94Q1906	Diarylide Orange	OR 34	40.0	6.9	53.1	32.0	7.1	60.9	9.56	1.15	<0.05	< 5
94R1696	Red Oxide Light	R 101	60.0	8.7	31.3	23.5	15.1	61.4	16.32	1.96	<0.05	< 5
94R1607	Red Oxide Medium	R 101	60.0	8.7	31.3	25.4	14.8	59.8	15.92	1.91	<0.05	< 5
94R1665	Transparent Red Oxide	R 101	22.0	10.0	68.1	6.0	10.7	83.3	10.19	1.22	<0.10	< 5
94R1612	Naphthol Red BS	R 170	32.0	6.8	61.2	28.2	6.5	65.3	8.90	1.07	<0.05	< 5
94R1672	Naphthol Red YS	R 188	34.0	6.9	59.1	26.6	6.9	66.5	9.38	1.12	<0.05	< 5
94V1871	Carbazole Violet	V 23	20.0	6.9	73.1	14.4	6.6	79.0	9.01	1.08	<0.05	< 5
94V1880	Quinacridone Violet	V 19	30.0	6.9	63.1	22.1	6.9	71.0	9.37	1.12	<0.05	< 5
94W1130	Titanium Dioxide	WH 6	65.0	8.3	26.7	32.2	14.7	53.1	16.52	1.98	<0.05	< 5
94W1102	Titanium Dioxide-Chalk resistant	WH 6	68.0	8.4	23.6	35.5	15.4	49.1	17.22	2.06	<0.05	< 5
94Y1404	Yellow Oxide	Y 42	59.4	8.6	32.0	26.7	14.2	59.1	15.39	1.84	<0.05	< 5
94Y1474	Transparent Yellow Oxide	Y 42	35.0	14.9	50.1	14.3	17.8	67.9	11.27	1.35	<0.05	< 5
94Y1498	Hansa Yellow	Y 74	35.0	6.7	58.3	28.7	6.5	64.8	9.25	1.11	<0.05	< 5

*VOC values for PanTINT 94 Colorants have been determined to be < 5 gr/l by calculation from supplier data. Values in this range can not be determined accurately by EPA Test Method 24.

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