

+ Chroma-Chem® 844

Pigment Dispersions for Solvent-Based Coatings

CHROMA-CHEM® 844 colorants are designed specifically for use in high-performance, non-aqueous, industrial and maintenance coatings. The colorants are exceptional for universal tinting of solvent-based industrial coatings.

► Key Benefits

The various pigments utilized in this colorant line are dispersed in a proprietary acrylic resin vehicle. This vehicle provides excellent wetting and dispersing properties superior to other acrylic resins available. Propylene Glycol Monomethyl Ether (PM) Acetate and Naphthol Spirits are the solvents used in this line.

Each colorant contains a carefully selected and unique blend of vehicle, solvent, pigment and additives to yield acceptance in a wide range of non-aqueous coatings applications. The individual CHROMA-CHEM® 844 Colorant formulations are designed to minimize the dispersing resin and additive levels needed to achieve colorant acceptance in a variety of coatings systems.

► Properties

The CHROMA-CHEM® 844 line is one of the first universal industrial colorant lines developed for broad based tinting of non-aqueous industrial coatings. The line of colorants exhibits excellent pigment development and rheological characteristics that contribute extraordinary stability to the colorant.

The CHROMA-CHEM® 844 Colorants are controlled to a tinting strength tolerance of $\pm 2\%$ by volume and $\Delta E < 0.5$. Rheological properties of the colorants are also controlled to allow for use in volumetric tinting machines. This close control allows for accurate reproduction of color in our Industrial Color System or in custom systems through in-plant or dispenser tinting.

► Applications

The CHROMA-CHEM® 844 colorants are formulated for use in most non-aqueous industrial coatings including, but not limited to, aerosols, concrete protection, general industrial finishes, general OEM, industrial maintenance, marine, and protective coatings.

► Compatibility

The CHROMA-CHEM® 844 colorants have been evaluated in a large number of maintenance and industrial coating types at 5 to 15 percent loading. Properties tested included gloss, gloss retention, hardness, adhesion, effects of over-bake and effect of acid, alkali, solvent and water resistance.

Results are consistent with the individual, typical pigment properties, and good results are expected in a wide variety of coatings applications based on acrylic, polyester, cellulosic lacquer, vinyl lacquer, chlorinated rubber, alkyd, epoxy, polyurethane coatings. This line is also compatible with most aliphatic and aromatic hydrocarbons, esters, ethers, ketones, and reactive diluents.

► Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the CHROMA-CHEM® 844 colorants is 3 years for most colorants and 2 years for white and oxide colorants from the date of manufacture in unopened containers.



Product Code	Description	Canister Code	CI Name	APEO-free	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
					X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
844-0061	Titanium White	TW	White 6	Yes	67.7	33.2	15.3	29.0	17.0	37.8	1.96	335	N	N	N	N
844-0152	Flattening Agent		White 27	Yes	28.2	14.7	17.1	18.0	54.7	67.3	1.09	597	**	**	**	**
844-0353	Bon Red		Red 48:2	No	23.4	14.9	26.0	27.4	50.6	57.7	1.10	559	A	A	S	A
844-0451	Quinacridone Red	QR	Violet 19	No	20.9	13.2	24.8	23.8	54.3	63.0	1.01	550	S	S	N	N
844-0453	Quinacridone Magenta		Red 122	Yes	12.5	8.6	34.4	31.9	53.1	59.5	0.99	525	N	N	N	N
844-0455	Quinacridone Red	QR	Violet 19	Yes	22.2	14.0	20.0	19.4	57.8	66.6	1.01	583	S	S	N	N
844-0550	Mono Azo Red		Red 170	Yes	29.1	21.5	19.1	19.5	51.8	59.0	1.10	570	N*	S*	N	N
844-0982	Lead Free Orange	UO	Orange 34/36	No	24.2	16.1	21.9	21.2	53.9	62.7	1.01	543	S	S	N	N
844-0985	Lead Free Orange	UO	Orange 34/36	Yes	24.2	16.1	21.9	21.2	53.9	62.7	1.01	543	S	S	N	N
844-1053	Red Iron Oxide Y/S		Red 101	Yes	64.8	27.3	16.3	31.5	18.9	41.2	2.10	396	N	N	N	N
844-1054	Trans Red Iron Oxide		Red 101	No	21.1	5.6	32.8	36.3	46.1	58.1	1.18	545	N	N	N	N
844-1063	Red Oxide Y/S	RO	Red 101	Yes	60.0	22.8	13.7	24.6	26.3	52.6	1.94	509	N	N	N	N
844-1352	Burnt Umber	BU	Brown 7	No	46.1	17.7	23.5	34.1	30.4	48.2	1.53	466	N	N	N	N
844-1615	Van Dyke Brown		Red 101/Black 7	No	41.7	18.2	16.5	20.9	41.8	60.9	1.41	589	N	N	N	N
844-1852	Trans Yellow Oxide		Yellow 42	Yes	30.0	10.5	33.3	39.4	36.7	50.1	1.26	461	N	N	N	N
844-1863	Yellow Iron Oxide	YO	Yellow 42	Yes	53.5	22.4	15.0	23.2	31.5	54.4	1.67	526	N	N	N	N
844-2075	Raw Umber		Brown 7	Yes	39.6	11.4	20.9	28.9	39.5	59.7	1.46	577	N	N	N	N
844-2557	Lead Free Med Yellow	MY	Yellow 83/151	Yes	38.5	22.9	21.8	23.6	39.7	53.5	1.15	456	S	S	N	N
844-2560	Fast Yellow Light		Yellow 97	Yes	24.0	17.0	23.2	21.7	52.8	61.3	0.99	521	S	S	N	N
844-2852	Organic Yellow G/S	OY	Yellow 175	Yes	27.0	18.7	28.2	28.5	44.8	52.8	1.09	489	N*	**	**	**
844-5557	Phthalo Green B/S	PG	Green 7	Yes	20.4	10.8	29.6	30.4	50.0	58.8	1.09	543	N	N	N	N
844-5558	Phthalo Green B/S	PG	Green 7	No	20.4	10.8	29.6	30.3	50.0	58.9	1.09	544	N	N	N	N
844-7253	Phthalo Blue G/S		Blue 15:4	No	22.0	15.7	37.4	38.4	40.6	45.9	1.09	443	N	N	N	N
844-7260	Phthalo Blue I/S		Blue 15:2	No	20.4	10.8	29.6	30.3	50.0	58.9	1.09	544	N	N	N	N
844-7262	Phthalo Blue I/S	PB	Blue 15:2	No	21.0	14.0	29.6	28.4	49.4	57.6	1.02	505	N	N	N	N
844-7265	Phthalo Blue I/S	PB	Blue 15:2	Yes	20.9	14.0	29.6	28.5	49.5	57.5	1.02	504	N	N	N	N
844-7270	Phthalo Blue R/S		Blue 15:2	No	26.0	17.6	21.0	20.0	53.0	62.4	1.02	539	N	N	N	N
844-8852	Carbazole Violet		Violet 23	No	5.1	3.1	32.9	28.9	62.0	68.0	0.93	576	N	N	N	N
844-9451	Quinacridone Violet	QV	Violet 19	Yes	20.1	13.5	23.8	22.8	56.1	63.7	1.00	561	S	S	N	N
844-9955	Lamp Black	LB	Black 7	No	22.3	13.3	29.8	30.0	47.9	56.7	1.07	511	N	N	N	N
844-9956	Carbon Black		Black 7	No	22.3	13.3	29.8	30.0	47.9	56.7	1.07	511	N	N	N	N
844-9957	Lamp Black	LB	Black 7	Yes	21.9	13.1	31.2	31.4	46.9	55.5	1.07	501	N	N	N	N
844-9959	Jet Black		Black 7	Yes	9.5	5.6	38.1	37.5	52.4	56.9	1.05	551	N	N	N	N
844-9960	Tinting Black		Black 7	No	23.0	14.4	36.3	38.2	40.7	47.4	1.13	458	N	N	N	N

^a Expected values based on formulation

Lightfastness and Resistance Key			
N	no bleed/discoloration	*	no Florida data, only Fadeometer
S	slight	**	no data
A	appreciable		

Lightfastness and Resistance information is provide for guidance purposes only.
Source: NPRI Raw Materials Data Handbook Volume 4 (© 2000)

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