

## + Chroma-Chem® 897

### Pigment Dispersions for Water-based Coatings

CHROMA-CHEM® 897 colorants are the next generation of high strength, low VOC colorants designed for use in a wide variety of water-based industrial coatings. The colorants are exceptional for universal tinting of water-based industrial coatings.

#### ► Key Benefits

The pigments specifically chosen for the Chroma-Chem® 897 line provide broader color space, excellent durability, light fastness, chemical resistance. All colorants are APE free. Chroma-Chem® 897 colorants can be used for both volumetric dispensing and in-plant tinting. They feature best-in-class quality for color retention, dispensability, consistency, and film property retention in a wide range of aqueous chemistries.

The pigments in the colorants were chosen to provide a wide range of shades. Durability, lightfastness and chemical resistance are dependent on the chemistry of the base coating, substrate and application conditions. It is recommended that the colorants be tested in the actual conditions of use to verify the suitability of the product.

Each colorant contains a carefully selected and unique blend of vehicle, pigment and additives to yield acceptance in a wide range of aqueous coatings applications. The individual Chroma-Chem® 897 colorant formulations are designed to optimize the millbase solids level needed to achieve colorant acceptance in a variety of coatings systems.

#### ► Properties

Chroma-Chem® 897 colorants have been evaluated in a large number of coatings prepared from a variety of binders. Properties tested include gloss, adhesion, hardness, sagging, blocking, dispensability, freeze-thaw stability, water resistance, chemical resistance, corrosion resistance, and weathering. Performance with respect to these properties is excellent and consistent with what is expected based on the pigments, surfactants, and other materials used in the formulation of these colorants.

#### ► Applications

The Chroma-Chem® 897 colorants are formulated for use in most aqueous industrial coatings including, but not limited to, aerosols, concrete protection, general industrial finishes, general OEM, industrial maintenance, marine, protective, and wood coatings.

#### ► Compatibility

Chroma-Chem® 897 colorants are recommended for use in a wide variety of water reducible and emulsion coating systems such as acrylics, alkyds, epoxies, and polyurethanes.

The effect of the colorants on coating performance depends upon the vehicle used and the amount of colorant added. The tinted coatings should be tested by the user to ensure desired performance specification, such as film hardness, gloss, dry time and other applicable film properties are obtained.

#### ► 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® 897 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	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC <sup>a</sup> g/L	Pigment Lightfastness		Pigment Resistance	
				X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
897-0001	Titanium White	NTW	White 6	70.3	38.0	11.9	27.0	17.9	35.0	2.17	23	N	N	N	N
897-0459	Quinacridone Red	NQR	Violet 19	30.5	22.7	8.7	13.0	60.9	64.0	1.12	32	S	S	N	N
897-0720	DPP Red		Red 254	35.8	24.1	11.1	22.9	53.1	53.0	1.18	34	N	**	N	N
897-0974	DPP Orange	NDO	Orange 73	35.9	31.7	12.8	19.2	51.3	50.0	1.09	23	N	N	N	N
897-1001	Red Iron Oxide	NRO	Red R101	61.4	24.8	10.6	25.5	28.0	47.0	2.03	35	N	N	N	N
897-1301	Burnt Umber	NBU	Brown 7	40.3	16.7	11.8	13.8	48.0	70.0	1.45	31	N	N	N	N
897-1801	Yellow Iron Oxide	NYO	Yellow 42	57.3	20.3	9.6	29.7	33.1	50.0	1.78	45	N	N	N	N
897-2555	Medium Yellow	NMY	Yellow 83/Yellow 151	42.0	33.8	10.4	12.7	47.7	54.0	1.21	23	S	S	N	N
897-2601	Organic Yellow	NOY	Yellow 175	31.3	23.3	7.4	16.6	61.4	60.0	1.12	22	N*	**	**	**
897-2801	Bismuth Vanadate	NBY	Yellow 184	56.8	19.2	8.9	14.6	34.3	66.0	1.93	47	N	N	N	N
897-5501	Phthalo Green	NPG	Green 7	35.9	23.0	9.1	11.0	55.0	66.0	1.25	25	N	N	N	N
897-7201	Phthalo Blue	NPB	Blue 15:3	35.5	21.1	9.2	22.9	55.3	56.0	1.12	13	N	N	N	N
897-8815	Carbazole Violet		Violet 23	21.9	15.4	10.3	16.3	67.8	68.0	1.10	31	N	N	N	N
897-9451	Quinacridone Violet	NQV	Violet 19	32.5	22.3	9.8	16.6	57.8	61.0	1.15	17	S	S	N	N
897-9998	Carbon Black	NCB	Black 7	20.7	13.0	17.1	17.0	62.2	70.0	1.15	45	N	N	N	N
897-1052	Transparent Red		Red 101	30.5	9.0	20.4	25.7	49.1	65.3	1.33	41	N	N	N	N
897-1852	Transparent Yellow		Yellow 42	33.9	12.0	19.7	24.0	46.4	64.0	1.38	44	N	N	N	N
897-1570	IR Light Brown		Brown 33	68.6	31.2	11.6	23.6	19.8	45.2	2.28	39	N	N	N	N
897-1700	IR Medium Yellow		Brown 24	65.0	30.4	16.4	30.5	18.6	39.1	2.10	42	N	N	N	N
897-2670	IR Yellow		Yellow 53	67.8	31.6	13.2	27.4	19.0	41.0	2.16	41	N	N	N	N
897-5500	IR Green		Green 50	71.5	34.0	13.1	28.5	15.5	37.6	2.43	48	N	N	N	N
897-7400	IR Blue R/S		Blue 28	61.8	28.0	14.0	25.2	24.1	46.8	1.94	46	N	N	N	N
897-7500	IR Blue G/S		Blue 36	63.4	27.9	13.2	23.7	23.4	48.4	2.07	45	N	N	N	N
897-9900	IR Black		Brown 29	54.6	11.7	15.9	34.7	29.5	53.7	1.82	49	**	**	**	**
897-9910	IR Perylene Black		Black 32	25.1	18.6	12.0	10.8	62.9	70.6	1.10	**	**	**	**	**

<sup>a</sup>Typical values based on ASTM 6886

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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: NPIRI Raw Materials Data Handbook Volume 4 (@ 2000)



Where Art Meets Technology