

Pigment Dispersions for Water-Based Coatings

Color Solutions

Chroma-Chem® 897

General Information

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 | Cannister Code | CI Name | % 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 |
| 897-0001 | Titanium White | NTW | White 6 | 70.3 | 38.0 | 11.9 | 270 | 179 | 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 | ** | ** | ** | ** | ** |

^aTypical values based on ASTM 6886

| 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)

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