

Industrial Colorants for Solvent-Based Applications

Color Solutions

Chroma-Chem® 942D

General Description

Using our global technological leadership to meet evolving customer requirements, Vibrantz Technologies introduces the Chroma-Chem AK 942D range of industrial colorants. This latest development further expands Chromaflo's wide range of industrial colorants and color systems.

Chroma-Chem AK 942D Colorants, which are based on an aldehyde ketone resin, have been specifically designed for both in-plant and machine tinting of industrial solvent-based coatings. The choice of resin together with the unique combination of resin, solvent, pigment and surfactants used in the Chroma-Chem AK 942D products result in a range, offering very broad compatibility, in a wide range of commonly used industrial coatings systems such as:

- Polyurethanes
- Epoxies
- Acrylics
- Polyesters
- Alkyds
- Cellulosic lacquers
- Chlorinated rubber
- Stoving enamels
- Other solvent-based systems

Designed to meet the exacting needs of modern industrial paint procedures, Chroma-Chem AK 942D Colorants provide the following advantages that bring additional value to your current color system:

- Broad compatibility means that sacrifices in paint properties do not need to be made to achieve compatibility.
- The pigments were selected and the colorants designed to achieve an optimum balance between performance and economies for the paint formulator.
- The colorants were developed to facilitate color matching of widely used industrial color standards such as RAL, AS2700 and BS.

- Volumetrically and gravimetrically dispensable colorants can be used both as in-plant and point-of-sale industrial color systems.
- Amine-free colorants do not react with isocyanates, as the resin system contains no water or free amines.

Chroma-Chem AK 942D Colorants satisfy the needs of the industrial market today in terms of compatibility, pigment choice, gloss, pot life, weather resistance, hardness, dry time and other key performance factors.

Tint Strength Control

Chroma-Chem AK 942D Colorants are controlled to a tinting strength tolerance of $\pm 2\%$ by volume, $\Delta E < 0.5$ vs. standard. This close control allows for accurate reproduction of color in our Industrial Color System, in custom systems, or for in-plant use.

Rheological properties of the colorants are also controlled to allow for use in volumetric tinting machines.

Volumetric formulas using CHROMACHEM AKD942D Colorants for common color collections such as Portfolio of Color, Federal Standard 595b, RAL colors and British Standard colors can be developed to suit a variety of paint systems.



Please contact your Vibrantz Technologies Technical Service Laboratory for further information.

Masstone	Tint	Product Code	Colorant Description	CI Pigment	Specific Gravity	% Composition by Weight			VOC* g/L
						Pigment Solids	Vehicle Solids	Volatiles	
		9429960	HS Black D21	Black 7	1.19	18.7	41.1	30.3	359
		9421863	Yellow Oxide D22	Yellow 42	1.75	57.1	23	19.9	347
		9427262	Blue D23	Blue 15:4	1.07	17.5	46.4	36.1	386
		9425502	Green D24	Green 7	1.1	18.9	42.8	38.3	420
		9420061	White D25	White 6	2.07	69	14.7	16.1	333
		9420925	Orange D26	Orange 36	1.1	23.7	43.8	32.5	355
		9422802	Golden Yellow D28	Brown 24	2.07	67.6	17.6	14.7	304
		9429451	Bordeaux D29	Violet 19	1.06	16.9	46	35.6	379
		9427265	Blue D30	Blue 15:6	1.07	25	29.8	45.2	485
		9421063	Red Oxide D31	Red 101	2	62.9	20.7	16.4	327
		9422803	Yellow D32	Yellow 138	1.19	31.7	34.1	32.3	383
		9422502	Medium Yellow D33	Yellow 83	1.05	18	46.1	36	377
		9429955	Black D34	Black 7	1.5	3.5	29.3	22.9	343
		9420715	Red D35	Red 254	1.14	35.1	34	31	352
		9422804	HS Yellow D81	Yellow 138	1.27	44.8	23.6	31.6	400

All data obtained directly from pigment suppliers, individual testing is recommended. Lightfastness is measured against The blue wool standard on a scale of 1 to 8, where 1 = severe change and 8 = no change



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