

## FLUORESCENT PIGMENTS

A fine particle size pigment with high tinctorial strength, manufactured in a thermoset matrix. For use where heat and solvent resistance are essential. These pigments are generally more suitable for long term storage in water systems. Formulated for optimal fade resistance.

### Principal Applications

- Flexo and Gravure Inks
- Screen and Textile Inks
- Polyol/Paintball Systems
- Aerosol, Brush-on, and Spray Paints
- Aqueous and Non-aqueous Systems
- Plastisols

### Product Features and Benefits

- Fine Particle Size                      Pigments exhibit excellent dispersability
- Solvent Resistant                      Allows for use in wide range of solvents
- High Color Strength                    Extra strength pigments offer formula flexibility and increased value
- Broad Compatibility                    Formulations can be prepared in a wide range of media

### Pigment Specifications

Specific Gravity	1.3
Average Particle size <sup>3</sup>	3 to 5 microns
Hegman Grind	Approx. 5.5 or better
Softening Point	Thermoset Matrix (non-melting)
Decomposition Temp.	585°F to 600°F

<sup>1</sup> Among the factors affecting fading are the level of pigment loading, properties of the vehicle, thickness of application, presence of a protective overcoat and nature and angle of the light source

<sup>2</sup> Heat-stability is the degree of color shift following exposure to heat

<sup>3</sup> By spin centrifugation

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### Solubility<sup>4</sup> and Bleed Resistance<sup>5,6</sup>

	<u>Solubility</u>	<u>Bleed</u>
Aliphatic Hydrocarbons	A	1
Aromatic Hydrocarbons	A	1
Alcohols - low polarity	A	1-2
Alcohols - high polarity	B	3-4
Ketones - low polarity	B	2-3
Ketones - high polarity	C	3-4
Esters - low polarity	A	1-2
Esters - high polarity	B	2-4
Glycols	A	1-2
Glycol Ethers	B	3-4
Chlorinated Solvents - low polarity	A	1-2
Chlorinated Solvents - high polarity	B	2-4
Plasticizers	A-C	1-4

Note: Combinations of different solvents may give different results and should be tested

A - Insoluble            1 - None  
 B - Slightly Soluble    2 - Slight  
 C - Partly Soluble      3 - Moderate  
 D - Soluble              4 - Considerable

<sup>4</sup>Test conditions, Water bath, 30 minutes, 100°F

<sup>5</sup>Following solubility test, appearance of the supernatant liquid is observed

<sup>6</sup>Green fluorescent pigments generally exhibit superior bleed resistance