



## **Brilliant Solvent Resistant Fluorescent Pigments**

### **BSR SERIES**

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

#### **Principal Applications**

- Solvent-Based Coatings & Inks
- Aerosol Spray Paints
- Industrial Coatings
- Water-Based Coatings
- Craft Paints & Artists Colors
- Screen Inks-Solvent, UV & Plastisol
- Gravure Inks
- Polyol/Polyurethane Systems
- Paintball Systems

#### **Product Features and Benefits**

- Fine Particle Size                      Pigments exhibit excellent dispersibility
- 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	3 to 5 microns
Hegman Grind	Approx. 5.5 or better
Softening Point	Thermoset Matrix (non-melting)
Decomposition Temp.	585°F to 600°F
Oil Absorption (ASTM Method D281)	0.7
Lightfastness <sup>1</sup> (Blue wool scale)	0-1

<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

## Solubility<sup>2</sup> and Bleed Resistance<sup>3,4</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
Dimethyl Formamide (DMF)	D	3-4
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>2</sup>Test conditions, Water bath, 30 minutes, 100°F

<sup>3</sup>Following solubility test, appearance of the supernatant liquid is observed

<sup>4</sup>Green fluorescent pigments generally exhibit superior bleed resistance

**Color Guide**

<u>SHADE</u>	<u>CODE</u>
Pink	BSR-PK211
Cerise	BSR-CE212
Red	BSR-RD213
Orange-Red	BSR-OR214
Orange	BSR-OG215
Orange-Yellow	BSR-OY216
Yellow	BSR-YE217
Chartreuse	BSR-CH227
Green	BSR-GR228
Blue	BSR-BL219
Magenta	BSR-MG221
Invisible Blue	BSR-CL001

**Storage:** When stored in a cool, dry environment, BSR pigments have an indefinite shelf life. Colorant containers should be kept closed to minimize contamination.

**Toxicity:** Tests conducted through independent laboratories have found Brilliant Group BSR Series Fluorescent Pigments to be “essentially non-toxic.” A summary of the test data is listed on the MSDS, which is available upon request. Good industrial hygiene and handling methods are essential in the use of all products whether or not they are determined to be hazardous.

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