

Technical Data Sheet

SPL-JX Fine Grind

General Description

DayGlo SPL-JX Series Dispersions are high solids, fluorescent pigment dispersions. This product offers a bright, finely ground, high strength, fluorescent pigment particle with good lightfastness properties. The SPL-JX Series Dispersions are dispersed in water and suitable for use in water based inks and coatings.

SPL-JX Series Dispersions contain approximately 58% fluorescent pigment dispersed in water and a small percentage of alkali soluble acrylic resin. The SPL-JX Series Dispersions are V.O.C. (Volatile Organic Compounds) free. They are compatible with a wide range of aqueous systems. Such systems may include the following:

- Water Based Flexo Ink
- Water Based Gravure Ink
- Waterborne Coatings
- Paper Coatings

Additives, co-solvents, and binder selection can influence the performance of the SPL-JX Series Dispersions. The effects of these raw materials should be tested in the final application formula.

Physical Properties

Product Form	Aqueous Fluorescent Pigment Dispersion
Specific Gravity	1.05 - 1.15
Hegman Grind	5.0 Minimum
Percent Solids	57 - 63%
pH	8.0 - 8.8
Brookfield Viscosity	150 - 450 cps. @ 25°C, (RVT #1, 20 RPM)

Stability

It is recommended that SPL-JX Dispersions be protected from freezing. SPL-JX Dispersions are stable to shear and pH. Temperature during manufacturing should be kept below 60°C.

Lightfastness

SPL-JX Series Dispersions exhibit good lightfastness for indoor applications. However, their exterior lightfastness is limited. The users should conduct their own tests to determine if the use of SPL-JX Series Dispersions will meet their lightfastness requirements.

Disclaimer: Our technical advice, information, statements, whether given verbally, in writing, or in the form of test results, is offered for your guidance without warranty. No warranty for fitness for a particular purpose is made. This also applies where protective rights of third parties are involved. It does not release the user from obligation to test the suitability of the products and formulas for the intended process and applications. Our guarantee is limited to the consistent quality of our product.

Available Colors	
Product Code	Color
SPL-11JX	Aurora Pink
SPL-12JX	Neon Red
SPL-13JX	Rocket Red
SPL-14JX	Fire Orange
SPL-15JX	Blaze Orange
SPL-17JX	Saturn Yellow
SPL-21JX	Corona Magenta

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Handling

SPL-JX Series Dispersions are liquid products, which offer easy incorporation into aqueous systems with minimal mixing. These products are not compatible with non-aqueous formulations.

The SPL-JX Series Dispersions should be mixed before use to ensure homogeneity. The pH of the SPL-JX Series should be adjusted to a minimum of 8.0 before use with other ingredients to avoid shocking the ink or coating system.

These products are for industrial use only. Avoid contact with skin and eyes. Do not swallow. Use appropriate respirator if the product forms mists. See the available Material Safety Data Sheet for more information.

Shipping

SPL-JX Series Dispersions are available in 55-gallon plastic drums and 5-gallon plastic pails. Tote tanks are available upon special request.

Viscosity Control

Formulations based on SPL-JX Series Dispersions are designed to be thinned with water only. Formulations may tolerate small quantities of alcohols but levels should be kept below 5%. Testing should be conducted when solvents are used to determine their affects on the final application formulas.

Viscosity can be increased with the use of Joncryl 142 or a similar product. The addition of 5% of Joncryl 142 will increase viscosity approximately 20 seconds/#2 Zahn cup. Testing should be conduct with each thickener to determine their affects on the final application formulas.