

SpectraFlair® Bright Silver Pigment

Technical Overview



SpectraFlair.
PIGMENT TECHNOLOGY

Key Benefits

- Easy to apply
- Excellent durability
- Enhances surface characteristics
- Easily combines with conventional pigments for custom colors

Applications

- Automotive coatings
- Plastics
- Synthetic textiles
- Packaging
- Printing
 - Flexo
 - Screen
 - Gravure
 - Tampo/Pad
- Industrial coatings

If you're looking for bold metallic effects, SpectraFlair Bright Silver and Bright Silver HSA pigments from JDSU are brilliant choices.

The all-vacuum-metalized flake is produced by depositing fine layers of magnesium fluoride and aluminum on ultra-smooth PET film. Bright Silver provides injection and extrusion molded applications with the brightness of vacuum-metalized flake technology combined with the excellent shear stability of magnesium fluoride. Bright Silver is the only vacuum-metalized flake suitable for plastic molding. End-use applications include cosmetic and personal care packaging, household appliances, consumer electronics, and automotive top coats.

Specifications

Parameter	Bright Silver - 20	Bright Silver HSA - 20
Chemical nature	MgF ₂ -coated Al mixture	MgF ₂ -coated Al mixture
Certifiable Properties		
L* ¹	83.6 to 88.0	83.6 to 88.0
C* ¹	0 to 2.0	0 to 2.0
Percent solvent (propylene glycol n-propyl ether)	0	27 to 33%
Particle size - D50 ²	18 to 22 μm	17.5 to 22.5 μm
Particle size - D99 ²	≤70 μm	≤80 μm
Typical Properties		
Specific surface area ³ (m ² /gram)	0.45	1.35
Dry specific gravity (H ₂ O=1.0 g/cm ³)	2.8	2.8

1. JDSU Test Method 06172004-G61Y-WI6I and JDSU Test Method 04092004-R3YE-5BIN
2. JDSU Test Method 04092004-J7BI-BP3K
3. Specific area reported is the theoretical coverage of a monolayer of pigment flakes

Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-707-525-7007 in North America and +800-5378-JDSU worldwide or via e-mail at spectraflair@jdsu.com.

Product Code	Product Name
10095188	Bright Silver - 20
10095283	Bright Silver HSA - 20

Notes:

1. The information furnished above has been compiled from sources considered to be dependable and is believed to be accurate. However, users should conduct confirming tests in their own plant or laboratory to determine suitability, as conditions for use are not under our control. JDSU makes no guarantee as to the results obtained in using the material, and shall not be held liable for any damages resulting from mixing or further processing that is inconsistent with recommended usage. Because we cannot control the application, use, or processing of the products, we cannot accept responsibility. No statement contained herein should be construed as a recommendation for any use which would violate any patent rights.
2. Additional safety information is contained in the product's Material Safety Datasheet, which all users are strongly urged to consult.
3. Approvals: SpectraFlair pigment is made entirely of components registered with leading international authorities including EINECS, MITI, TSCA, DLS, Canadian DSL and AICS, and does not require its own registration.