

INV Series UV Fluorescent Pigments

TECHNICAL DATA SHEET

Substantially invisible under normal light
Strong fluorescent color under UV light

Version 1.0

INV Series UV fluorescent pigments are organic and substantially invisible under normal daylight but the fluorescent colors are visible upon exposure to UV-A (365nm) or UV-C(254nm). These pigments can be incorporated in transparent paints, coatings and inks for security, anti-counterfeiting, document coding and brand protection applications.

Features & Benefits

- Substantially invisible under daylight or normal light
- Excellent fluorescent colors upon exposure to UV light (365nm)
- Very low solubility in most water and most organic solvents
- Compatible with a variety of paint and ink systems

Applications

- Anti-counterfeiting/security inks, coating
- Document coding



Available Colors

INV-3613 UV Red
INV-3617 UV Reddish yellow

Activated by UV-A (365nm)

INV-3620 UV Blue
INV-3618 Greenish yellow

INV-3619 UV Green

Available Colors

INV-2513 UV Red

Activated by UV-C (254nm)

INV-2519 UV Green

INV-2517 UV Yellow

Typical physical & Chemical Properties

Chemistry:	organic	Oil absorption:	≤50g/100g pigment
Particle Size(D50):	5-10µm (specified from batch to batch)	Melting range:	135-180°C
Appearance:	Off-white powder	Lightfastness:	Approx 2-3

Solvent Resistance

INV Series UV fluorescent pigments are resistant to aliphatic and aromatic hydrocarbons, alcohols, ketones, esters, glycols, and plasticizers. Mixtures of some solvents or exposure to high temperature may have a more severe effect on the pigments. Test is necessary before use in a particular application.

Code	Chemistry	Max emission wavelength
INV-3613 UV Red	organic complexes	612 nm
INV-3620 UV Blue	organic heterocyclic compounds	440 nm
INV-3619 UV Green	organic heterocyclic compounds	485 nm
INV-3617 UV Reddish yellow	organic heterocyclic compounds	540 nm
INV-3618 UV Greenish yellow	organic heterocyclic compounds	525 nm
INV-2513 UV Red	organic complexes	612 nm
INV-2519 UV Green	organic complexes	505 nm
INV-2517 UV Yellow	organic complexes	540 nm

Packaging & Storage

INV Series UV fluorescent pigments are delivered in bags, net weight 1kg. Shelf life can be at least 2 years if kept in dry and cool place and away from heat and light. All opened bags should be carefully resealed immediately after use.

Safety

INV Series UV fluorescent pigments are essentially non-toxic, non-hazardous, non-radioactive and extremely low heavy-metal content. Safety data sheet (SDS) is available upon request.

Special notice

INV Series UV fluorescent pigments particle sizes are fine enough for screen printing inks. For flexo, gravure and offset inks, three-roll milling will help to achieve homogenized particle sizes. Mixing of the above two types may achieve dual UV activated effects (365nm and 254nm).

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