

Radglo[®] VSF-X-02

General information

General description:

- Ultra-violet responsive solid state fluorescent pigment for water and solvent based formulations.
- UV Green Tracer (Quinazoline type)

Applications:

- UV Green tracer for counterfeiting, security, leak detection and product identification.

- VSF-X-02 UV Green is relatively invisible in normal daylight, but produces a highly bright and vibrant green color upon exposure to ultra-violet or "black" light.
- VSF-X-02 UV Green should be dispersed in the final application.
- VSF-X-02 UV Green is recommended for PVC, PET, ABS, PC, GPPS and HIPS. Concentrations of 0.25% to 0.50% are recommended for initial testing. The pigment shows excellent non-migration results in PVC plastisols and organosols. It may be used in a number of inks and coatings, including heat set and offset inks.
- Due to the nature of this pigment and production methods, the particle size distribution is extremely narrow.
- For aqueous formulations, the use of preservatives is highly recommended. The right preservative package (combination of bactericides and fungicides) should provide reliable, highly effective control of microorganisms in the intended formulation.

Standard color:

Product name	Description
VSF-X-02	UV Green

Characteristics:

Chemical Name	Quinazoline
C.I. N°	N.A.
C.I. Name	N.A.
CAS	N.A.
EINECS	N.A.

Packaging:

1 box = 10kg
 MOQ = 20kg
 Other packaging on request

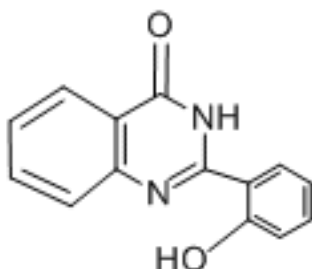
Technical information

Physical properties	
Appearance	Yellow Powder (greenish)
Hue under UV light	Bright Yellow (greenish)
Melting point	> 290°C
Particle size D ₅₀	< 3 µm
pH	4 – 8 (MeOH + H ₂ O)

Storage & shelf life:

120 months after production date when kept in closed original packaging in a dry place at ambient temperature.

Chemical structure

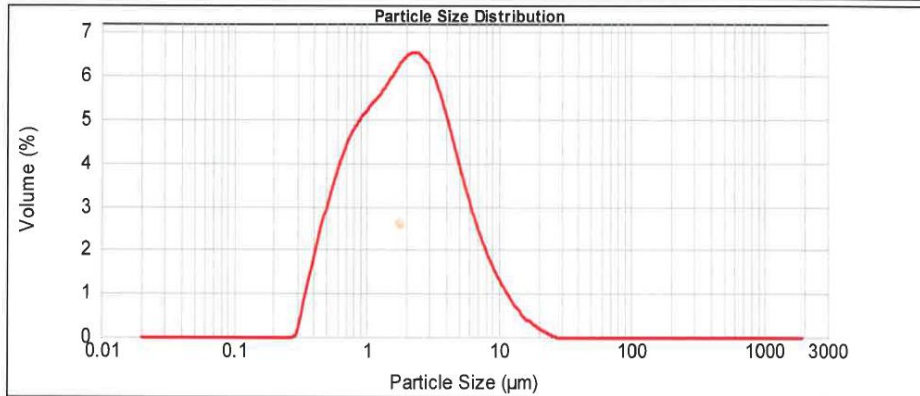


Safety & regulatory:

Safety Data Sheet available on request.

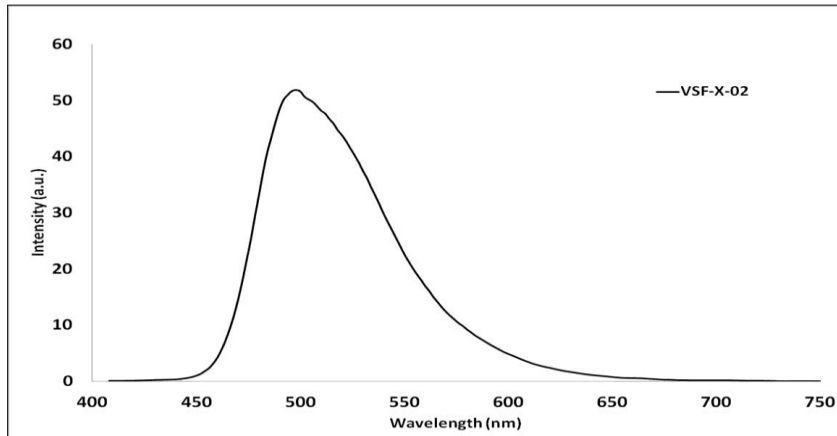
Particle Size distribution

d(0.1): 0.619 um d(0.5): 1.957 um d(0.9): 6.129 um



Fluorescence

λ-max (15% in acrylic paint) = 498 nm (excitation at 350 nm)



Solvent resistance (5= best)

Acetone	5
Water	5
Ethylacetate	5
MEK	5
Ethanol	5
Toluene	5
White Spirit	5
Acid	5
Alkali	5
Soap	5
Butter	5
Paraffin	5

Lightfastness (BWS)

Medium	Lightfastness
Acrylic	4
PVC	5

®= registered trademark

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