

# Technical Data Sheet

## VSF-X-02

### 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.

### Product Features

- 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.

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

Standard Color	
Product Name	Description
VSF-X-02	UV Green

Characteristics	
Chemical type	Quinazoline
C.I. No.	N.A.
C.I. Name	N.A.
CAS	N.A.
EINECS	N.A.

#### Packaging:

1 box = 10kg  
MOQ = 20kg

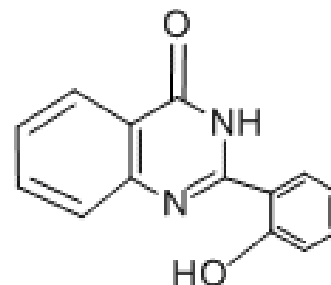
#### Storage & shelf life:

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

#### Safety & regulatory:

Safety Data Sheet available on request.

### Chemical Structure



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.

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## VSF-X-02

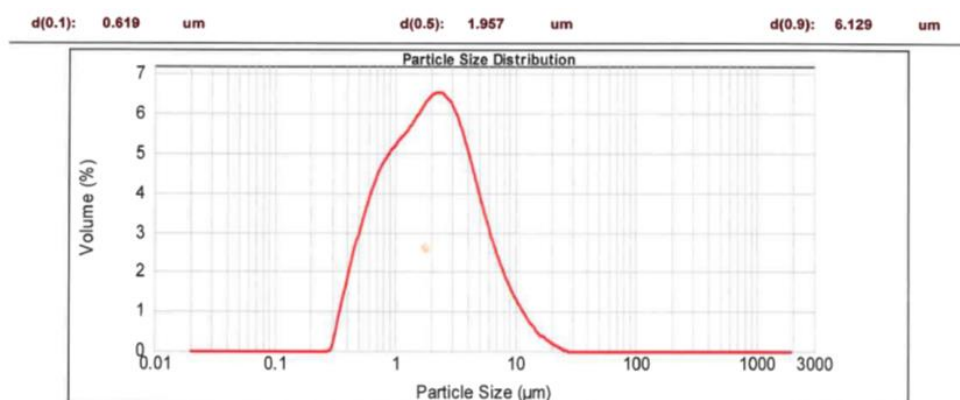
### Solvent resistance (5= best)

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)

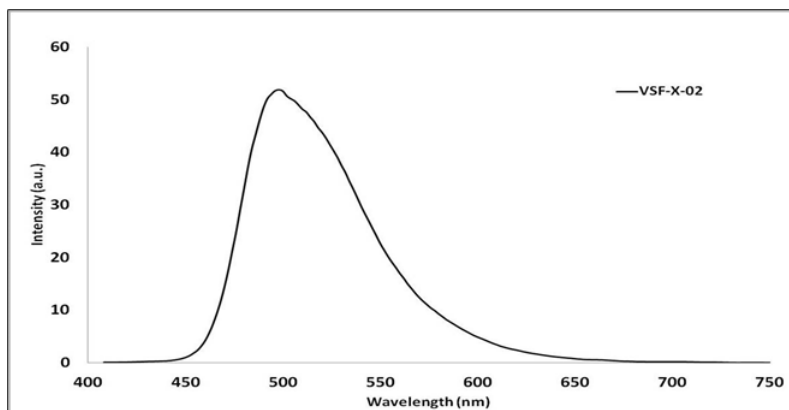
Medium	Lightfastness
Acrylic	4
PVC	5

### Particle Size Distribution



### Fluorescence

$\lambda$ -max (15% in acrylic paint) = 498nm (excitation at 350nm)



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