Europark 1046, B-3530 Houthalen
+ 32 11 520740
www.radiantcolor.com

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.

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.

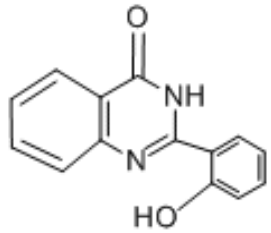
Packaging:
1 box = 10kg
MOQ = 20kg

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.

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_2O)

Chemical Structure



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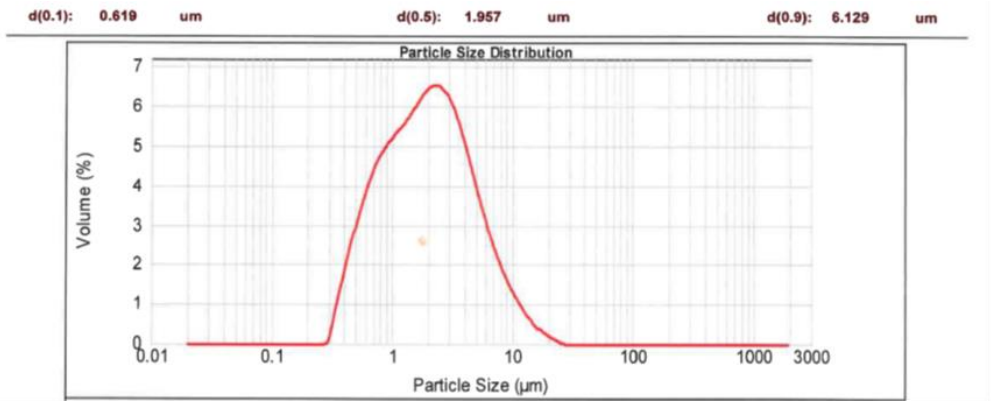
Solvent resistance (5= best)

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

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