

# Technical Data Sheet

## VSF-0-01

### General Description

- Solid state fluorescent pigment for EU market.
- Pigment Yellow 101 – PY101.

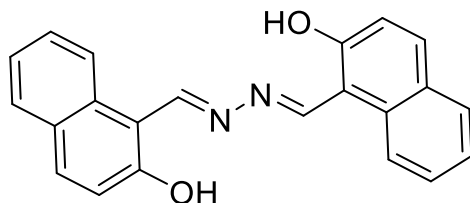
### Applications

- Non-destructive material testing, crack detection, waterborne (flexo/ gravure/ offset) inks.
- Coloring of waxes, chalk and crayons.

### Physical properties

Appearance	Yellow Powder
Hue under UV light	Bright Yellow (greenish)
Mol. Formula	C <sub>22</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
Mol. Weight	340.12
Particle size D <sub>50</sub>	8 - 12 µm
Melting point	>305°C

### Chemical Structure



### Solubility and bleeding data

Solvent	Solubility	Bleeding
Acetone	5	2
IPA	5	5
Xylene	5	3
EtOAc	5	3
XyMek 50	5	3
NMP	5	1
EtOH	5	5
Toluene	5	3
MEK	5	3
Mineral oil	5	5

### Standard Color

Product Name	Description
VSF-0-01	Yellow

### Characteristics

Chemical type	Azomethine
C.I. No.	48052
C.I. Name	PY101
CAS	2387-03-3
EINECS	219-210-0

### 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.

5	Very good
4	Good
3	Moderate
2	Poor
1	Very poor

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Fluorescent pigments are insoluble and need to be dispersed (easily stir-in) in a solvent. Please take into account that some solvents attack the pigments and are not recommended to use. As a formulation contains mostly different solvents, it is impossible to generalize. We recommend to check the fluorescent pigment in your formulation. Solvent resistance and bleeding performance of the pigments were checked in the most commonly used solvents according to our test procedure.

#### Test method Solvent Resistance (SR):

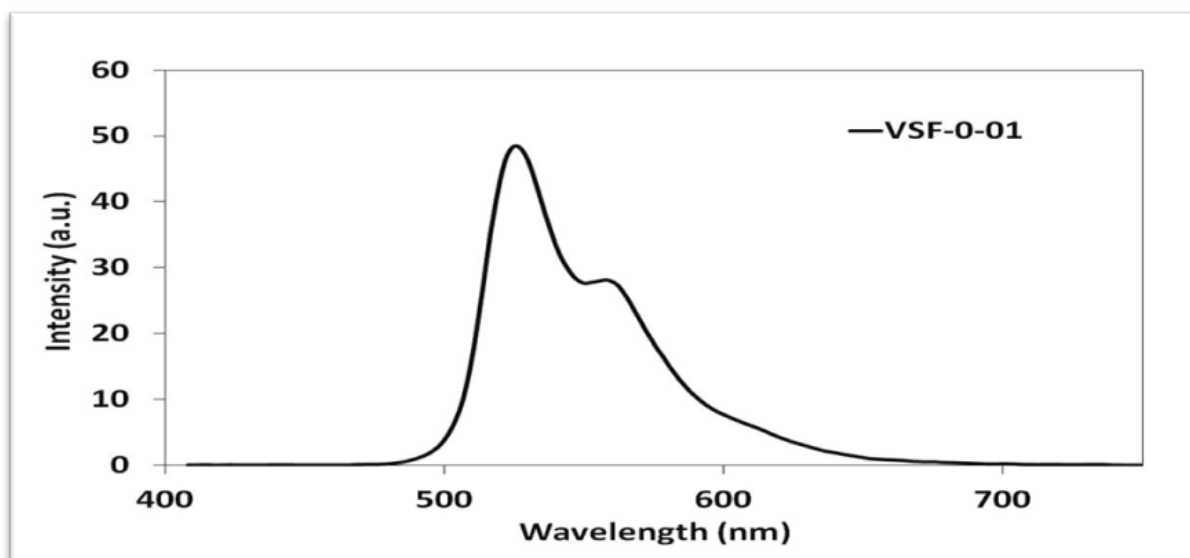
1g of pigment dispersed in 10ml of solvent; after stirring for 1 minute, the mixture is left at 38°C over 30 minutes. The solvent attack on the pigment indicates the solvent resistance. The higher the number (5) the better.

#### Test method Dissolution (B):

1g of pigment dispersed in 10ml of solvent; after stirring for 1 minute and storage for one week at room temperature, the mixture is filtered. The transmission % is measured of a 50 times diluted filtrate. The higher the number (5) the better.

#### Fluorescence

$\lambda$ -max (0,05% in acrylic paint) = 528nm (excitation at 350nm)



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