

FlawGlo®

Product Data Sheet

OF 800

Oil Based Fluorescent Powder

OF 800 is fluorescent yellow-green particles used with carrier fluid (CF). It is designed to be used with UV-A light to detect very fine discontinuities, such as those found in finished products for the aerospace industry and other critical applications. OF 800 particles improve accuracy and visual clarity in presenting critical discontinuities to the human eye.

General Appearance:

- Aspect: Fluorescent yellow-green powder

Properties:

- Concentration: 1.0 g/ltr
- Temperature Limits: 32-120°F (0-49°C)
- Specific Gravity: 0.56 g/ml
- Particle Size: Not less than 98% passage through sieve as defined in AMS 3044. The typical range of particle sizes is from 2 to 5 µm, with an average particle size of 3 µm.
- Sensitivity: OF 800 shows a minimum of 8 lines on a Ketos tool steel ring (as defined in SAE AS5282), set on a 25 mm diameter copper bar, magnetized with 2500 A of direct current.

Compliance & Specifications:

- AMS 3044
- API RP 5A5
- ASME B&PV
- ASTM E709
- ASTM 3024
- ASTM E1444
- MIL-STD-271
- MIL-STD-2132
- NAVSEA 250-1500-1

Shelf Life:

Four (4) years, when closed containers are stored in a clean, dry environment away from excessive heat and cold.

Pack Sizes: 1kg container

Application:

- Lighting: The inspection area should be darkened such that no more than 2 foot candles (20 lux) of white light is present. A UV-A light source capable of 1000 µW/cm² at the part surface is recommended.
- Preparation: OF 800 should be used at a concentration of 1.0 g/ltr. For best results, add a small amount of carrier oil to the powder to form a slurry prior to addition to the bath.
- Settling bulb volume: 0.15–0.25 ml

Disclaimer: Our technical advice, information and statements given verbally, in writing or in the form of test results, are offered for your guidance without warranty. No warranty of fitness for a particular purpose is made. It is the user's responsibility to test the suitability of each product for his intended process and applications. Our guarantee is limited to the consistent quality of our products.