

# FlawGlo®

## Product Data Sheet

### OV 106

#### Oil Based Visible Powder

OV 106 are black magnetic particles for use with carrier fluid, a refined petroleum distillate. It is designed to be used with visible light for finding discontinuities in finished products. Higher particle concentration provides heavier indication buildup for easy detection.

#### General Appearance:

- Aspect: Black coloured powder

#### Properties:

- Concentration: 9.5 g/ltr
- Temperature Limits: 32-120°F (0-49°C)
- Specific Gravity: 0.4 g/ml
- Particle Size: Not less than 98% passage through sieve as defined in AMS 3042. The typical range of particle sizes is from 0.5 to 4.0 µm, with an average particle size of 1.5 µm.
- Sensitivity: OV 106 shows a minimum of 6 lines on a Ketos tool steel ring (as defined in SAE AS5282), set on a 25mm diameter copper bar, magnetized with 2500 A of direct current.

#### Compliance & Specifications:

- AMS 3042
- ASME B&PV
- ASTM E709
- ASTM 3024
- 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: A minimum of 100 foot candles (1000 lux) of visible light at the part surface is recommended.
- Preparation: OV 106 should be used at a concentration of 9.5 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: 1.2–2.4 ml

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