

# FlawGlo®

## Product Data Sheet

### BMI 106

Black Magnetic Ink

BMI 106 is an aerosol spray can containing OV 106 black particles. It is designed for use with visible light inspection to detect discontinuities in finished products and structural fabrications. A higher particle concentration provides heavier indication buildup for easier detection. BMI 106 should be used with WCP 104

#### Appearance:

- Suspended Black Magnetic Ink

#### Properties:

- Colour: Black
- Concentration: 12 g/litre
- Density: 0.820 g/ml
- Flashpoint: 100°C
- Processing Temperature: 0-49°C
- Particle Size: The typical range of particle sizes is from 0.5 to 4.0 µm, with an average particle size of 1.5 µm.
- Sensitivity: BMI 106 shows a minimum of 6 lines on AISI Ketos tool steel ring (as defined in SAE AS 5282), set on a 25 mm diameter copper bar, magnetized with 2500 A of direct current

#### Compliance & Specifications:

- IS 3703:2004
- AMS 3042
- ASME B&PV
- ASTM E709
- ASTM E3024
- MIL-STD-271
- MIL-STD-2132
- NAVSEA 250-1500-1

#### Application:

- For best results, use BMI 106 [between 21°C and 85°C (70°F to 185°F)] along with WCP 104.
- Shake the can vigorously until the marble rattles, and occasionally during use.
- Spray the solution onto the magnetized surface from 7 to 12 inches (18 to 30 cm) at 45° angle to the surface until the surface is thoroughly covered with the solution.
- Examine the surface under sufficient white light for indications.
- If clogging develops, turn the spray button 1/4 turn. If clogging persists, remove and clean the spray button. Do not insert a pin or any other object into the can opening. Now, gently place the spray button with a twisting motion, holding the top of the can and pointing the spray button opening away from you.

#### Shelf Life:

Recommended to use within 24 months, the product can be used for next 3 years, if it satisfies spraying & performance parameters.

**Pack Sizes:** Aerosol Can (1box of 10 cans), each can with Net Qty 400 ml

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