

## TECHNICAL DATA SHEET

### B-MAG

Code 1567

### *Black Oxide Magnetic Particle Oil Dispersion*

#### DESCRIPTION

CalCheck B-MAG is Black Oxide black magnetic oxide suspended in a highly refined light petroleum oil. The suspension responds to magnetic leakage fields created by discontinuities in ferromagnetic material. Particles rapidly collect at leakage fields producing black indications.

#### FEATURES & BENEFITS

- Low background colour for high contrast indication visibility.
- Particles are easily agitated and fast acting, producing defined indications quickly and accurately.
- Greater convenience and portability in aerosol form.
- Can be used with both stationary and portable magnetic test equipment.

#### DIRECTIONS

**Note:** These instructions describe the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency.

1. Clean the test surface and allow it to dry.
2. Apply CalCheck WCP to the surface being inspected following the directions for use of the white contrast paint.
3. The longer B-MAG is stirred or agitated the more uniform the spray.
4. Apply a liberal coating of B-MAG to the inspection area so that there is sufficient magnetic particle to flow over the area.
5. Allow the excess fluid to run off the inspection area.
6. Inspect the surface under visible light.
7. Collections of black magnetic particles will reveal discontinuities at the leakage fields.
8. Clean and repeat the process, changing the orientation of the magnetising direction.

#### PHYSICAL PROPERTIES

Colour	Black
Particle Concentration	1.2 - 2.4ml
Particle Size	0.5 – 4.0 µm with and average size of 1.5 µm
SAE Sensitivity	6 holes
Suspension Fluid	Clear highly refined light petroleum distillate



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Viscosity <3cSt  $\pm$  5% (ASTM D445 @ 38°C (100°F))

Flash Point >93°C (>200°F)

### ORDERING INFORMATION

Product Code	Packaging
1567/400	Aerosol
1567/42	3.8 liters (1 gallon)
1567/51	18.9 liters 5 gallons)

### SPECIFICATIONS COMPLIANCE

- ASME Boiler and Pressure Vessel Code Section V
- AMS 2641
- AMS 3041
- AMS 3042
- AMS 3043
- ASTM E3024
- ASTM E709
- ISO 9934-2

### DANGER

Extremely flammable aerosol. Pressurized container: may burst if heated. May be fatal if swallowed and enters airways.

### PRECAUTION

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

### FIRST AID

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

### STORAGE

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container in accordance with any local regulation.

### BATCH NUMBERS

Batch numbers can be found on the bottom of aerosol cans or labels of bulk containers. Certificate of Conformance documents are provided with the product or can be download from

[www.callington.com](http://www.callington.com)

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