



FerroChem NDT Systems Pvt. Ltd.

## FerroChem Black

Oil Based Non-Fluorescent Black Paste, I47A.I/J-5

500 gm in PVC Bottle

For

Crack Detection by Magnetic Particle Inspection Method

Code No.: I47AJ5I



Black colored powder for wet application, in "Paste" Form for Inspection in daylight. Suspension Medium Oil, such as Ferrochem Product 'Test Oil' (2204), for crack detection by Magnetic Particle Inspection Method.

### Technical Details:

- Colour : Black
- Net Content : 500 gm
- Weight : 551 gm ( approximate) per Bottle
- Recommended Concentration : 10 gm Per Ltr. of Oil
- Settling Volume In 100 ml glass centrifuge tube after 60 minutes : 1.2 ml Approximate
- Particle Size : 90% Particles in the size range of 1 to 25 micron

### Features :

- Chemical Nature: Non hazardous, Non-Toxic, Non-Corrosive Liquid.
- **Shelf Life:** The product will be suitable for its designated use till **two (2) years** from the date of manufacture, if stored well, and in packed condition as supplied.
- Sensitivity on Keto's Tool Steel Ring, as per ASTM E 1444 Table No.XI.2, for I400Amp HWDC: Number of holes indicated is 5.( Required : 4 holes minimum)

### Compliance Standard:

- **ASTM E-709** : Standard Guide For Magnetic Particle Testing!
- **ASTM E-1444** : Standard Practice For Magnetic Particle Testing!

### Desirable Recommendations :

- For good results use I47A.I/J-5, with Ferrochem Product Test Oil for M.P.I. i.e. 2204
- Component surface should be pre-cleaned and free from oil / grease etc. at the time of use.

### For Storage:

- Store in Dry, Cool, Shaded Area and at temperature less than 50°C.
- Always store can vertically.

### Safety :

- No special precaution is necessary.

### Supplementary Products:

- **Magnetic Field Indicator M.F.I:** Used To determine presence and approximate direction of external magnetic field.
- **Residual Field Indicator R.F.I. :** Used for measurement of Residual Field after demagnetization.
- **White Light Assembly :** Used for inspection in NDT techniques such as MT and PT.
- **Copper Mesh Pads :** Used to established a firm contact.
- **Centrifuge Tube:** Used to measure settling volume, bath concentration in MPI testing.

For more technical information or detailed procedure about how the product should be used, please contact FerroChem.

Website [www.ferrochemndt.com](http://www.ferrochemndt.com) or  
Email Id [info@ferrochem.net](mailto:info@ferrochem.net) kind attention : Q.C. Department