



FerroChem NDT Systems Pvt. Ltd.

FerroChem Luminous

Oil Based Fluorescent Powder, I34A/P-4

500 gm in PVC Bottle

For

Crack Detection by Magnetic Particle Inspection Method

Code No.: I34AP4

Fluorescent yellow-green powder for wet application, in "Powder" form for Inspection under UVA light. Suspension Medium Oil such as Ferrochem Product "Test Oil" (2204), for crack detection by M.P.I. Method.



Technical Details:

- Colour in daylight: Green
- Colour under UVA Light: Brilliant yellow-green.
- Net Content : 500 gm
- Weight : 551 gm (approximate) per Bottle
- Recommended Concentration : 1 gm Per Ltr. of Oil
- Settling Volume In 100 ml glass centrifuge tube after 60 minutes : 0.1 ml Approximate
- Particle Size : 90% Particles in the size range of 1 to 25 micron

Features:

- Chemical Nature: Non hazardous, Non-Toxic, Non-Corrosive.
- **Shelf Life:** The product will be suitable for its designated use till **two (2) year** 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 1400Amp HWDC: Number of holes indicated is 6.(Required :3 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 I34A/P-4, 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.
- The Inspection should be carried out in dark conditions (white light inside the dark area should be less than 20 Lux strength) with help of UVA Light of minimum intensity 1000 micro watt / sq. cm. at 15 inches from source.

For Storage:

- Store in Dry, Cool, Shaded Area and at temperature less than 50°C.
- Replace the lid after every use.

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.
- **UVA 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.ferrochemndtsystems.com or
Email Id info@ferrochem.net kind attention : Q.C. Department