FERROCHEM NDT SYSTEMS PVT. LTD.
Plot No. C-98, Additional Jejuri Industrial Area, M.I.D.C.,
Village : Jejuri, Taluka : Purandar, Dist. :- Pune – 412 303,
Tel. No. 0091 9272230385, 9272230386
E.Mail : info@ferrochem.net **Web :** www.ferrochemndtsystems.net

Residual Field Indicator (RFI) – 1238

Residual Field Strength Indicator For MPI
Meter to check field strength on Demagnetization
Range -Gauss -3 to +3
Code No: FC – 1238, Packing: 1 No in PVC Box.

Use of Residual Field Indicator (RFI) - 1238

- In Magnetic Particle Testing, MPI, components are required to be magnetized for Crack Detection.
- After MPI testing, the components are required to be de-magnetized.
- Products with retained magnetic strength can create problems in handling, storing or further processing.
- Confirmation of adequate demagnetization requires, testing the component surface to verify whether the de-magnetization is adequate or not.
- A Gauss Meter of Gauss value -3 to +3 is designed and is used for verification of the level of residual magnetic field strength on the component surface.

How to use RFI:

- RFI is a handy, round dial type meter with a pin type indicator.
- The measurement value is -3 to+3 Gauss, It requires no power, hence it is really handy.
- When specified portion of RFI is touched on the component surface, strength of residual magnetism is indicated.
- The indicator of RFI has '0' indication value at the center.
- On both sides of zero indication, indication of 3 gauss is marked.
- One side is positive and the other side is negative.
- Beyond 3 gauss, excessive area on both sides is marked in Red color.

If the indicator pin rests in the red color zone, it indicates that the demagnetization is not achieved up to the desired value.

If the indicator pin rests anywhere between +3 and -3 it indicates that the demagnetization is done satisfactorily.

Under ideal conditions, a properly demagnetized component should show residual magnetism between +3 to -3 Gauss.

If the indicator shows that the residual field is more than +/- 3 Gauss, it indicates demagnetization of component is not done up to the adequate value.

- **If the component is demagnetized again, the level of magnetization can be checked once again.**

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- **If the indicator pin rests anywhere between +3 and -3 it indicates that the demagnetization is done satisfactorily.**
- **Obtaining '0' value after demagnetization is theoretical. Magnetic field of the earth is of +/- 3 gauss value. Hence the indicator is made of +/- 3 gauss value.**
- **RFI is required to be calibrated every 6months. FerroChem offers calibration service.**