MAGNETIC FLUX INDICATORS

008M004

GENERAL DESCRIPTION

The Magnaflux® Type G (General Use) Magnetic Flux Indicators are flexible indicators used to detect appropriate levels of magnetic field strength and directional orientation during the magnetic particle testing process. They are manufactured from permeable magnetic steel sandwiched between two protective 0.002" brass plates. The central magnetic steel plate contains three milled slots with widths of .0075", .009", .010" and common depths. The slots serve as sample test flaws with wider slots generating greater amounts of magnetic flux leakage and larger magnetic particle indications than narrower ones.

By using Magnaflux® Magnetic Flux Indicators, magnetic field direction and levels can be properly set and continuously checked during the MPI process for their sufficiency in detecting defects of the sizes indicated on the test strip.

INSTRUCTIONS

Place the flux indicator in intimate contact with the material to be examined. The strip may be held in place manually or with the use of an adhesive or tape. Hold or attach the strip tightly to the surface with the lines on the strip parallel to the field. Indicators provide the strongest particle indications when positioned so that the long side of the indicator is perpendicular to the applied magnetic field. Gently apply the suspension and then energize. Well defined lines will indicate a strong field is present. No lines should form if used perpendicular to the field.

SPECIFICATIONS COMPLIANCE

ASTM E709-08 (Sections 20.8.5.2 & Appendix X2)
ASTM E1444/E1444M-12 (Sections 6.2.6, 7.1.2 & Annex A1-A2)