MAGNETIC FIELD INDICATORS

2480

505056

105645

GENERAL DESCRIPTION

The Magnaflux® Magnetic Field Indicators, also known as gauss meters or magnetometers, are used to check residual magnetism after magnetic particle testing. They read the amount of residual magnetism left in a part quickly when the indicator arrow is placed against a magnetized part. The field indicators are available in both general purpose and non-calibrated and calibrated models and can be re-calibrated through Magnaflux® Authorized Service Centers.

Part Numbers

2480: Magnaflux® General Purpose Field Indicator

The Magnaflux® General Purpose Field Indicator is a non-certified rugged, pocket sized, non-calibrated field indicator that measures 2 1/2" in diameter and is perfect for field use. It is scaled +10 or -10 gauss from 0 center. Each division represents 1 gauss. The field indicator is used to determine if there is residual magnetism left in the part.

505056: Magnaflux® 10 Gauss Calibrated Field Indicator

The Magnaflux® 10 Gauss Calibrated Field Indicator has a scale range of +10 or -10 gauss from 0 center. Each large-scale division represents 1 gauss and the small divisions represent 1/2 gauss. The 10 gauss calibrated field indicator is accurate to +/- 0.5 gauss. Certification is provided.

105645: Magnaflux® 20 Gauss Calibrated Field Indicator

The Magnaflux® 20 Gauss Calibrated Field Indicator is for general purpose use as may be required in various demagnetization specifications. Scaled +20 or -20 gauss from 0 center with large divisions at 2 gauss and small divisions at 1 gauss. The gauss field indicator will withstand exposure to fields as strong as 400 oersteds without affecting calibration and is accurate to +/- 1.0 gauss. Certification is provided.

Note: Calibrated field indicators should be re-calibrated every 6 months.

INSTRUCTIONS

Place the field indicator near or directly against the object being tested. The lower rim of the indicator below the arrow is the most sensitive part of the meter and should be placed closest to the part being measured.

The indicator should be placed near a position on the part that exhibits flux leakage such as the end of a bar shaped part.

Magnetic polarity of the field is being measured by the direction of the pointer deflection on the center zero scale. A plus (+) indicates the meter has been presented to a North magnetic pole and a minus (-) to a South magnetic pole. The higher the reading, the stronger the magnetic field.

Readings in gauss relate only to the magnitude of external leakage fields and should not be misconstrued as the flux density within the part.

***Note**:*

1. *If you place the indicator in a field strong enough, it may throw it considerably off scale.*
2. *If your field indicator comes in contact with the field of a demagnetizing coil or within the effective field of a conductor carrying a heavy alternating current, it may become demagnetized.*

SPECIFICATIONS COMPLIANCE

ASTM E709-08 (Section 18.3)
ASTM E1444/D1444M-12 (Sections 6.7.1.3 & 7.4.6)
BPVC (Section V, Article 7: T-778)