

List-Magnetik Ferrite Content Meter FC140 / FERRITE-CHECK 140



The List-Magnetik FERRITE-CHECK 140 ferrite content meter is a compact and handy device with an integrated probe for measuring the ferrite content in austenitic and duplex steels according to the Basel standard DIN EN ISO 8249 using the magnetic induction method.

Ferrite content measurement is critical for welded duplex steels to ensure the weld possesses sufficient ferrite levels to maintain structural integrity. A deficiency in ferrite content can occur if the weld area undergoes inadequate heat input or improper cooling during the process.

The FERRITE-CHECK 140 addresses this by providing 3 calibration standards traceably calibrated to NIST standards to ensure consistent accuracy. Featuring an intuitive, multilingual menu and a simple single-button interface, the device is designed for ease of use. Measurement results are displayed in both FN and Fe% on a high-contrast, illuminated OLED screen.

The FERRITE-CHECK 140 delivers rapid and highly precise determinations of ferrite content. To facilitate the detection of weld seams on smooth or polished surfaces, the device features a fast continuous measurement mode. As the probe is moved across a surface, the instrument continuously records data. Once the probe is lifted, the system automatically calculates and displays a statistical summary, including the minimum, maximum, and average values for the measurement series.

Technical Data For Ferrite Content Meter FC-140

- Application: Measurement of ferrite content in austenitic and duplex steels
- Measuring range: 1-100 Fe%, 1-140 FN
- Measuring method: Single measurement or continuous measurement with averaging
- Smallest measuring area: Ø 2 mm
- Accuracy: 5%
- Resolution: until 10: 0.01, above 10: 0.1
- Ambient temperature: 0-50°
- Display: illuminated high-contrast graphic OLED display
- Menu navigation: English, German, French, Italian, Spanish, Hungarian, Polish, Dutch
- Data logger: 4000 measured values flexibly divisible
- Statistics: count / maximum / minimum / average / standard deviation
- Interface: wireless interface for communication with Android, IOS and Windows
- App for Android, iOS, Windows: free of charge via Google Play Store, Apple App Store, List-Magnetik website
- Power supply: 1x 1.5 V AA Mignon
- Operating time: approx. 30 hours
- Dimensions: Ø 28 x 94 mm
- Weight: 72 g (with battery)

