

BYCOTEST 103

پترو فرهان گستر جنوب



READY-TO-USE BLACK MAGNETIC INK

FGJ-NDT.IR
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General description

Bycotest 103 is an oil-based, ready-to-use black ink that gives clear black indications when viewed in daylight.

Applications

Used in conjunction with suitable magnetising equipment, 103 will locate medium-fine surface and slightly subsurface defects in ferrous materials. Typical defects found include shrink cracks, welding defects, grinding cracks, quenching cracks and fatigue cracks.

Composition

103 is a suspension of black magnetic particles in a high-flash, low-odour petroleum distillate.

Benefits

- Ready to use
- High sensitivity
- Clear indications

Typical Properties (not a specification)

Property	103
Form and colour	Black suspension
Flash point	> 93°C (bulk)
SAE sensitivity	6 - 7
Viscosity at 38°C	2.5 mm ² /s
Settlement volume (1 hour)	1.2 - 2.4 ml
Particle size (mean)	0.2 - 2.0 µm
Sulphur content	< 200 ppm
Halogen content	< 200 ppm
Storage temperature	10°C to 30°C
Usage temperature	-10°C to 50°C

Like all Magnaflux materials, 103 is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

General Method of Use

- **Clean the component before testing** to reduce the risk of contamination and provide a suitable test surface.
- **If the test surface is a dark colour**, apply a thin coating of a suitable white contrast paint - such as 104A or 104Plus - to provide a better contrasting background.
- **Shake the aerosol can** for 30 - 60 seconds initially to ensure that the ink is mixed thoroughly. You will need to shake the can repeatedly during use.
- **Spray the ink onto all surfaces of the component.** The indications will be formed during the application of a magnetising current.
- **After inspection**, the components should be properly demagnetised before cleaning.

Recommended Products

Product type	Product Name(s)
Precleaning / cleaning	C10, C15
Contrast paints	104 and 104Plus

Specification Compliance

Specification	103
AMS3043D (Aerosols only)	✓
ASME B & PV Code, Sec V	✓
EN ISO 9934-2	✓

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