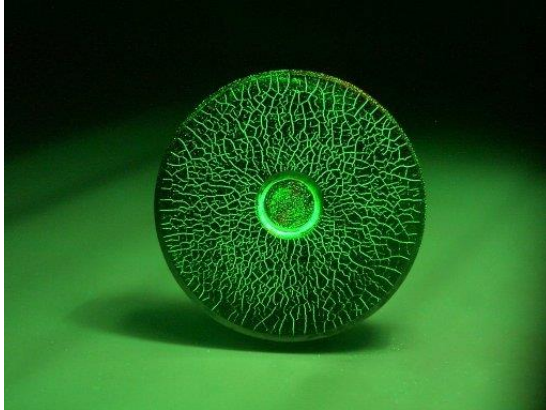


## REFERENCE BLOCK TYPE 1 Type 1, appendix B, EN ISO 9934-2



THE MTU° 3 MAGNETIC INK MONITOR is a useful accessory for determination of the magnetic powder concentration in the test liquid. The MTU test piece consists of a manganiferous steel, which is alloyed with vanadium. The cracks available in the test piece on both surfaces are manufactured by hardening and are in the size of 0.1 to 1µm. Every test piece has a unique crack figure, it distinguishes itself by having net-shaped crack indications which were produced as naturally grown cracks. The assessment as to whether the magnetic powder suspension is still usable for crack indication is carried out by means of the preparation of a reference image for comparison of the monitor when used with the test sample.

### TECHNICAL INFORMATION:

Dimensions: 50 mm diameter x 10 mm thick with a 10 mm diameter central hole.  
Clear-sighted indications are achieved on the test piece when used with a threader bar magnetised at a field strength of 2.4 kA/m.

### CONFORMANCE:

This test piece is conform to the requirement of Appendix B, § B1 of the norm EN ISO 9934-2 (Non-destructive testing- Magnetic particle testing- Part 2: Detection media) as reference test piece type 1.

### FIELD OF USE:

This is currently used to:

- Check the performance of magnetic inks and magnetic powders at the manufacture stage according to § 7.1.1 of EN ISO 9934-2 and when they are used according to § 7.1.2 of EN ISO 9934-2;
- Compare the performance of magnetic inks and magnetic powders against reference test samples (generally fresh sample or retained sample of batches)
- Compare the performance of magnetic inks and magnetic powders of the same sources or of different sources

### METHOD OF USE:

See Appendix A of EN ISO 9934-2



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