



CGM CIGIEMME S.p.A.



Controlli Non Distruttivi - Non Destructive Testing

REFERENCE BLOCK TYPE I (MTU)



DESCRIPTION

The Reference block Type I (MTU) is an immediate-result test sample for verifying the effectiveness of magnetic suspension. The cracks on both surfaces of this sample are produced by hardening and have dimensions ranging from 0.1 to 1 μm . The reference block can be used with both fluorescent and visible particles.

In compliance with: EN ISO 9934-2; ASTM E1444.

USER INSTRUCTIONS

FIRST STEP: DEGREASING

The circular surface must be cleaned with a solvent such as Velnet/Solnet to remove all impurities and residues from previous checks.

SECOND STEP: VERIFICATION

Verify the effectiveness of the cleaning under UV light – if fluorescent products are used – or under white light – if colour contrast products are used.

If residues are found, repeat the degreasing phase.

THIRD STEP: PRODUCT APPLICATION

Cover the surface of the sample with the magnetic liquid to be tested. This can be done by immersion or spraying. Wait for the ferromagnetic particles to accumulate on the cracks.



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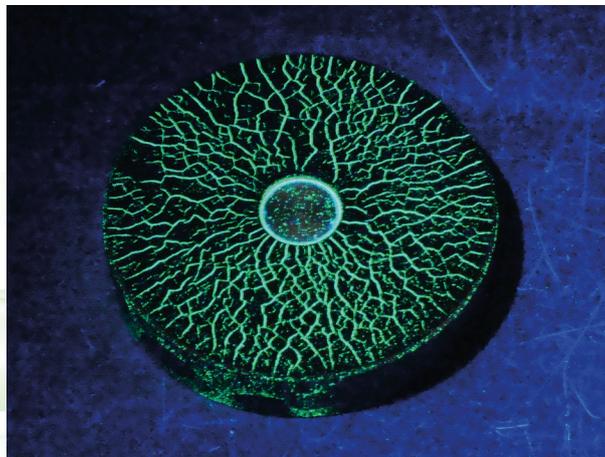
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FOURTH STEP: OBSERVATION

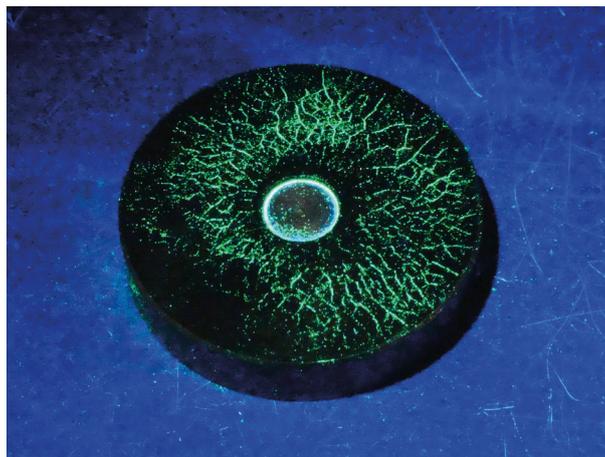
Using the appropriate lighting system (UV light for fluorescent products and white light for colour contrast products), compare the result with the sample images (See photos attached to the certificate).

Three situations may occur:

1. **Optimal concentration.** The test sample reflects what can be seen in the image below.



2. **The test sample only partially reflects the image.** Therefore, immediately check the concentration of the magnetic liquid, restore it to the values indicated by the standards or by the manufacturer and check the emission of UV light and white light. Then repeat the test.



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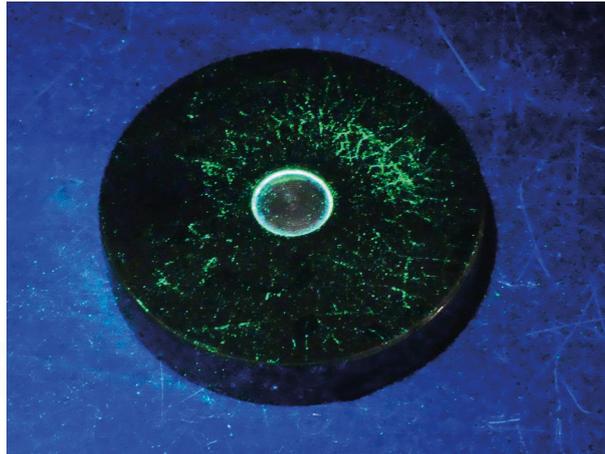


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3. **The sample does not reflect the image at all.** Therefore, immediately check the two control parameters (concentration and UV or white light emissions).



IMPORTANT INFORMATION:

The MTU test sample retains a constant residual magnetic field, so under no circumstances should it be magnetized or demagnetized.

AVAILABLE MODELS

PART NUMBER	DESCRIPTION	REF.
04099884	Reference block Type I (MTU)	88.4



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