

# Uniflux

Ihr Partner bei der  
zerstörungsfreien Werkstoffprüfung

## Control body for the qualified reviews

in magnetolectric crack testing



## control body for qualified verifications in the Magnetolectric crack testing

The magnetolectric crack testing of safety parts requires a periodic inspection of the

- Intensity of UV lights
- Magnetization Direction
- Magnetization Field Strength
- Residual field strength
- White light measurement

### The Uniflux testcase:

All testequipment is also available together in a carrying case:

Carrying case "Measuring-Testing-Testing" with the following contents:

- Field Strength Meter MFM 200.1
- UV IntensityMeter – Meter with Digital Display
- Test Specimen ASTM D250
- Comparison Body No.1 (MTU No.3)
- ASTM Bulb with Stand

Order number: 100-042



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Your partner in the  
Non-destructive material testing

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# Product

## Field strength meter MFM 200.1:

The device is used to measure the RMS value of  
Equal and alternating fields

- Measuring range: 0 – 199.9 A/cm
- Display: Digital LCD
- Accuracy: +/- 2 % of the measured value
- Power supply: 9 V battery
- Measurement time with one battery: approx. 60 hours
- Weight with probe: 0.3 kg
- Tangential field probe: 1.5 mm thick  
With calibration standard



**Item number: 100-035**

## UV IntensityMeter - J221 with Analog Display:

For measuring the UV intensity of long-wave UVA radiation.

Compact device with attached sensor with two measuring ranges.

- Measuring range A: 0 – 1200  $\mu\text{W} / \text{cm}^2$
- Measuring range B: 0 – 6000  $\mu\text{W} / \text{cm}^2$   
with pinhole (perforation filter)
- Measuring range A: 0 – 6000  $\mu\text{W} / \text{cm}^2$
- Measuring range B: 0 – 30 000  $\mu\text{W} / \text{cm}^2$



**Order number: 100- 036**

Sie möchten mehr erfahren?

**KONTAKTIEREN SIE UNS NOCH HEUTE!**

Per E-Mail oder telefonisch:

[info@uniflux.de](mailto:info@uniflux.de)

+49 7974 1321

### ASTM D250 test specimen:

Test specimen to determine the magnetic field direction and test the sensitivity of the entire magnetic particle system

- **D 250 Test specimen:** octagonal, 3 mm thick, 8 soft iron segments, gaps (0.79 mm) brazed, one side copper-plated.
- **Application:** with non-plated side on magnetized test piece → scatter fluxes on segment seams.
- **Result:** after magnetic particle spraying, line displays (45° to each other) on the copper side.
- **Determination of magnetic field direction:** Rotate the test specimen, read the clearest line → field direction runs perpendicular to it.

Item number: 100-037-1



### UV IntensityMeter - with Digital Display:

For measuring the UV intensity of long-wave UVA and UVB irradiation from 290 – 390nm.

Ranges:

0 ~ 40 mW/cm<sup>2</sup> (three ranges)

- 400 μW/cm<sup>2</sup>
- 4000 μW/cm<sup>2</sup>
- 400 mW/cm<sup>2</sup>

(Note: 1000 μW/cm<sup>2</sup> = 1 mW/cm<sup>2</sup>)

Order number: 100- 036-1



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### Test body according to Prof. Berthold:

The test body is used to prove that:

- Magnetization direction
- Magnetization Strength
- Error detection

It is used together with the workpiece to be inspected magnetized and flushed.

The indication of the cross-shaped crack is assessed.

**Order number: 100- 037**



### Comparator body No.1:

This comparison body is used for regular checks

The magnetic particle suspension.

It contains surface cracks of various sizes.

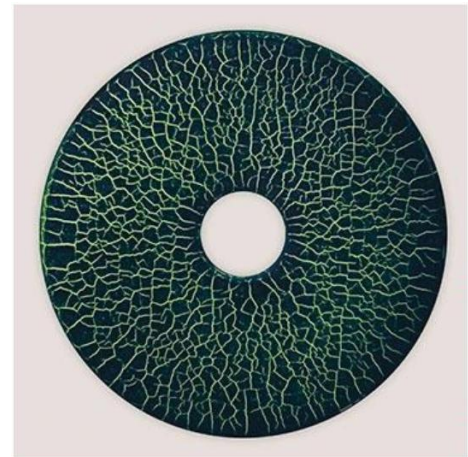
When flushing the comparison body with

Magnetic particle suspension can be applied via the crack pattern

determine the extent to which the magnetic particle suspension

is still reportable.

**Order number: 100- 038**



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### ASTM bulb with stand:

To check the freshly prepared testagent for the proper concentration.

In the ASTM bulb settles inside the testproduct, in the time specified by the manufacturer, magnetic particle particles.

The particle content can be related to the number of test strokes

can be read.

**Order number: 100- 039**



### Residual field measuring device magnetoscope:

For easy measurement of magnetic fields.

Can only be used for comparative measurements.

Measuring range:

- 0 to -20
- 0 to + 20

**Order number: 100- 052**



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## Lighting Meter:

White light meter / lux meter for measuring daylight  
Type: 5032

For measuring daylight according to EN ISO 3059

Viewing conditions of 4 measuring ranges:

- 0 – 199.9 lux (0.1lx)
- 0- 1999 Lux (1.0lx)
- 0 – 19900 Lux (10lx)
- 0 – 199000 Lux (100lx)

Order number: 100- 077-1



## OTHER ACCESSORIES FOR THE NON-DESTRUCTIVE MATERIALS TESTING

Visit our website and find many more products on the topic:



Piece



High Power UV Hand Lamp

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