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REFERENCE CRACK STANDARD - FLAT (PLATE)

Artificial crack defect standard for setting and verifying test sensitivity

Accurate setting and checking. Flat artificial crack defect standards are used for precise setting and verification of the sensitivity of eddy current testing systems, for example the DEFECTOMETER M as well as the TCM. They are also used in other eddy current crack detection applications to ensure reliable inspection performance.

For accurate sensitivity adjustment, artificial crack standards made from the respective test material are required. Therefore, the reference standards are available in different material versions:

- NFe (non-ferrous metals, e.g. aluminium or copper alloys)
- Fe (ferritic steels, ferromagnetic)
- Aust (austenitic stainless steels, non-magnetic)
- Ti (titanium and titanium alloys)

This ensures that a suitable calibration standard is available for different inspection tasks and material groups.

Since calibration quality directly depends on the dimensional accuracy and reproducibility of the artificial crack standard, the standards must comply with the highest dimensional tolerances. These are confirmed by the DAkkS calibration certificate supplied. The use of inadequate or inaccurate crack standards may lead to incorrect inspection results.

Information on calibration procedures, statements of conformity, and decision rules can be found in the sample calibration certificate.

YOUR ADVANTAGES AT A GLANCE

High precision: Reproducible artificial defects for reliable calibration results

Easy handling: Fast and convenient calibration of instrument and probe

Material versatility: Available for NFe, Fe, Austenitic and Titanium materials

Reliable testing: Secure sensitivity adjustment before every inspection

TECHNICAL INFORMATION

APPLICATION:	Calibration and sensitivity verification of eddy current crack detection systems
COMPATIBLE INSTRUMENTS:	DEFECTOMETER M, TCM and comparable systems
AVAILABLE MATERIAL VERSIONS:	NFe, Fe, Aust, Ti
MATERIAL GROUPS:	Non-ferrous metals, ferritic steels, austenitic stainless steels, titanium alloys
ARTIFICIAL NOTCH DEPTHS:	0.2 mm / 0.5 mm / 1.0 mm
ARTIFICIAL NOTCH WIDTH:	0.1 mm
STANDARD DIMENSIONS:	3 × 14 × 45 mm
CALIBRATION PURPOSE:	Gain setting and zero compensation
MOUNTING:	— Designed for secure mounting to the DEFECTOMETER housing — Separate mount for all four plates for the TCM is also available
MANUFACTURING QUALITY:	Precision-manufactured artificial flaws with high dimensional accuracy and reproducibility
CALIBRATION:	DAkkS calibration certificate for the width and depth of cracks
RECOMMENDED PRACTICE:	Calibration before each use for optimum test reliability

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The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

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