

Calibration Blocks

Indispensable for instrument calibration and certification:

Calibration Block no. 1 acc. to EN 12223,
Calibration Block no. 2 acc. to EN 27963.

With these calibration blocks, also many exercises for learning ultrasonic testing technique can be solved. The calibration blocks are delivered for protection together with a sturdy wooden storing case resp. in a leather pouch.

Ordering no.s:

Calibration block no. 1: 1703.001

Calibration block no. 2: 1702.001



Calibration Block no. 1



Calibration Block no. 2

Stepped Calibration Block

Useful auxiliary device for adjustment and check-up of wallthickness gauges:

Stepped calibration block 2 - 25 mm;
Steps: 2, 4, 8, 12, 16, 25 mm + 0.01 mm;
Contact area per step: 20 x 20 mm²

For protection against corrosion, the surfaces of the block are nickel-coated.

Ordering no.: 1713.001



Adjustment Standard

Useful auxiliary device for the daily check-up of the test range adjustment of your ultrasonic instrument or to check linearity and sensitivity:

The adjustment standard is equipped with a Lemo 1 - plug and is connected like a one-crystal probe to the transmitter socket of any arbitrary ultrasonic flaw detector. An echo sequence of 10 consecutive back wall echoes (50 mm steel with $c_l = 5920$ m/s) is typically used for instrument calibration.

Ordering no.: 1842.001



Ultrasonic Couplants

Indispensable for the manual testing using contact technique:

ECHOTRACE - Couplant

ECHOTRACE - couplant is a fragrant gel based on water, and better than oil, grease, or water: It achieves excellent coupling, does not soil, and is free from sulphur, halogen and phosphor; it contains a corrosion inhibitor, is non-irritant and non-flammable.

Temperature range: 0 °C up to +80 °C

Ordering no.s:

Tube 0.1 l: 9000.004

Bottle 0.5 l: 9000.003

Cubitainer 5 l: 9000.002

Bucket 3 l: 9000.001



ECHOTRACE - High-Temperature Couplant

It is a high-temperature resistive grease based on silicon oil. This special couplant allows measurements on components with surface temperatures between -40 °C to +290 °C

Ordering no.:

Tube 100 g: 9000.005



ECHOFLUID

ECHOFLUID is an odourless liquid with a similar viscosity as water or oil, but producing better coupling than other liquids. ECHOFLUID is recommended for higher frequencies and wallthickness measurement. It is completely removable, an excellent corrosion inhibitor and non-irritant.

Ordering no.s:

Bottle 0.1 l: 9004.001

Bottle 1 l: 9004.002

Can 10 l: 9004.003

Barrel 200 l: 9004.005



Corrosion Inhibitor

Indispensable for manual or automated ultrasonic testing in immersion or squirter techniques:

ECHOKOR - Water-Additive

Water is an ideal couplant, but generates corrosion on components and testing mechanics. Common corrosion inhibitor very often remarkably reduce the tool life of ultrasonic probes. ECHOKOR is added to the water in 1 to 2.5 % per volume and thus reliably protects even materials sensitive to corrosion. ECHOKOR can easily be dissolved in water and bothers neither skin nor probes.

Ordering no.s:

Bottle 1 l: 9027.001

Can 5 l: 9027.002

Barrel 200 l: 9027.003

ECHOKOR LF Water-Additive

ECHOKOR LF is an extra low foam corrosion inhibitor and is convenient for the use in couplant circuits.

Ordering no.s:

Can 5 l: 9028.002

Barrel 200 l: 9028.003



Note: Of course, for all products listed in this leaflet, detailed technical and material safety data sheets are available. These can also be download from the internet home-page: www.karldeutsch.de