WC38.1 Calibration sphere



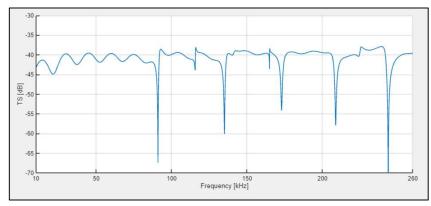


General

Kongsberg offers spheres for calibrating the echo sounder backscatter measurements. Calibration is performed for system verification and for optimizing measurement accuracy.

Kongsberg offers a WC38.1 mm calibration sphere tied in a net bag and with three separate suspension lines for attachment to the onboard calibration rigs. Suspension is designed to minimise the impact on the acoustic response of the calibration sphere.

The WC38.1 is the most versatile sphere and can be used with frequencies ranging from 10-260 kHz.

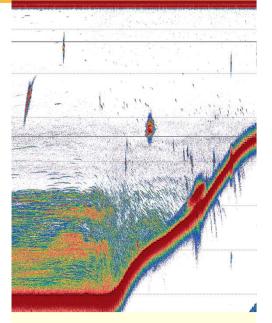


The theoretical frequency response of the WC38.1 mm calibration sphere is plotted. The plot is calculated by MacLennan (1981), "The theory of solid spheres as sonar calibration targets", using salt water with a sound velocity of 1480 m/s.

Order information

- Part number: 337897
- Included in the delivery: sphere, suspension lines on a coil, delivered in a storage box

Kongsberg Discovery P.O. Box 111 Horten, Norway <u>support.science@kd.kongsberg.com</u> kd.sales@kd.kongsberg.com



Technical specifications

Sphere specifications:

- Diameter: 38.1 mm
- Material: Tungsten carbide alloy with 6% cobalt
- Weight: 433 grams
- Net bag and suspension lines:
- Type: 0.4 mm monofilament
- Material: Polyamid alloy
- Three separate 2 metre suspension
 lines

Handling recommendations

The material of the lines and their breaking strength can be affected by prolonged exposure to salt water and UV radiation.

The sphere and lines should be rinsed in fresh water after use to prolong their life.

To avoid breaking the lines and losing the sphere, the net bag should be replaced when the lines become brittle.

Snap loading can break the lines and should be avoided.