



Be Smart. Be Safe. BeOSL.

The BeOSL Dosimeter is the essential component for whole body personal dosimetry measurements. This dosimeter measures the personal dose equivalents $H_p(10)$ and $H_p(0,07)$ in Sievert (Sv). The detector material beryllium oxide (BeO) readout is via optically stimulated luminescence (OSL). BeOSL Dosimeters are available in either a two-element and four-element-version. The BeOSL Dosimeter is versatile and can be used in many applications making it the best solution for whole body dosimetry measurements.

BeOSL Dosimeter

KEY FEATURES:

- MANUFACTURER CALIBRATED
- MULTIPLE READOUTS
- VERSATILE AND SUSTAINABLE DESIGN
- SMALL AND LIGHT FOR EASY HANDLING AND WEARING

BeOSL Dosimeter

TECHNICAL SPECIFICATIONS



Our cutting-edge BeOSL technology provides users with multiple dosimeter readouts (i.e., rereads) for dose result verification, dosimeter archiving and/or dose tracking.

With its durable and sleek design, the BeOSL Dosimeter is custom-made and manufactured in Germany. The BeOSL Dosimeter is comprised of high quality components to ensure the most accurate readouts possible for a high rate of wearing periods. Also, its detectors are always protected against environmental influences as the detector tray is extracted from the dosimeter only inside the BeOSL Equipment.

The BeOSL Dosimeter is available in both two-element or four-element versions which means it carries either two or four BeO detectors. With its excellent ceramic tissue equivalency of the BeO material, the two-element BeOSL Dosimeter uses only one detector for each unit ($H_p(10)$ and $H_p(0,07)$).

The two-element version covers the $H_p(10)$ detector with a filter made of Teflon. The $H_p(0,07)$ detector does not have an additional filter but the covering is constricted in this area. This version is smaller and lighter for easier handling and wearing.



Dosimeter Identification:
Bar Code (Code 128 C),
Internal RFID Chip on Request

Detector Material:
Beryllium Oxide

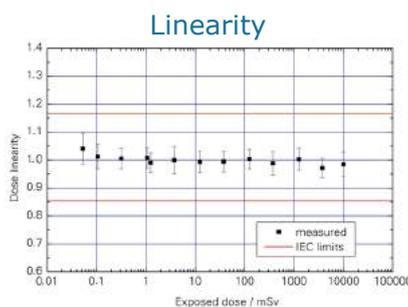
Radiation Type:
Photon Radiation and Beta
Radiation from Sr/Y-90

Nominal Dose Range:
 $0,1 \text{ mSv} \leq H_p(10) \leq 10 \text{ Sv}$
 $16 \text{ keV} \leq E_{ph} \leq 7 \text{ MeV}$
 $0^\circ \leq \alpha \leq \pm 60^\circ$

Mechanical Resistance:
No Effect for Drop Heights up to
2 m/6.5 ft

Dimensions (2-Element):
LxWxH 58x23x9 mm /
2.3x0.9x0.4 in
Weight: 10 g

Dimensions (4-Element):
LxWxH: 71x23x9 mm /
2.8x0.9x0.4 in
Weight: 16 g



The four-element dosimeter has two additional detectors; one is covered with copper and the other one with lead. These detectors receive information to help energy meaning our algorithm can deliver a higher accuracy and clearer information on the irradiated radiation quality compared to other dosimeters.

As the manufacturer, we deliver only calibrated dosimeters. This is necessary since all BeO detectors have a different OSL sensitivity and in order to keep our

customers' lives simple, a calibration file is delivered with all the dosimeters.

COMPONENTS

Article Number	Description
1001	BeOSL Two-Element Dosimeter
1002	BeOSL Four-Element Dosimeter

BeOSL Technology is used by leading dosimetry services around the world!

MADE IN GERMANY

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