



Highest quality in function and design

Our OSL dosimeters are the perfect dosimeters for all applications in whole-body dosimetry of X-ray and gamma radiation – trendsetting and easy to use!

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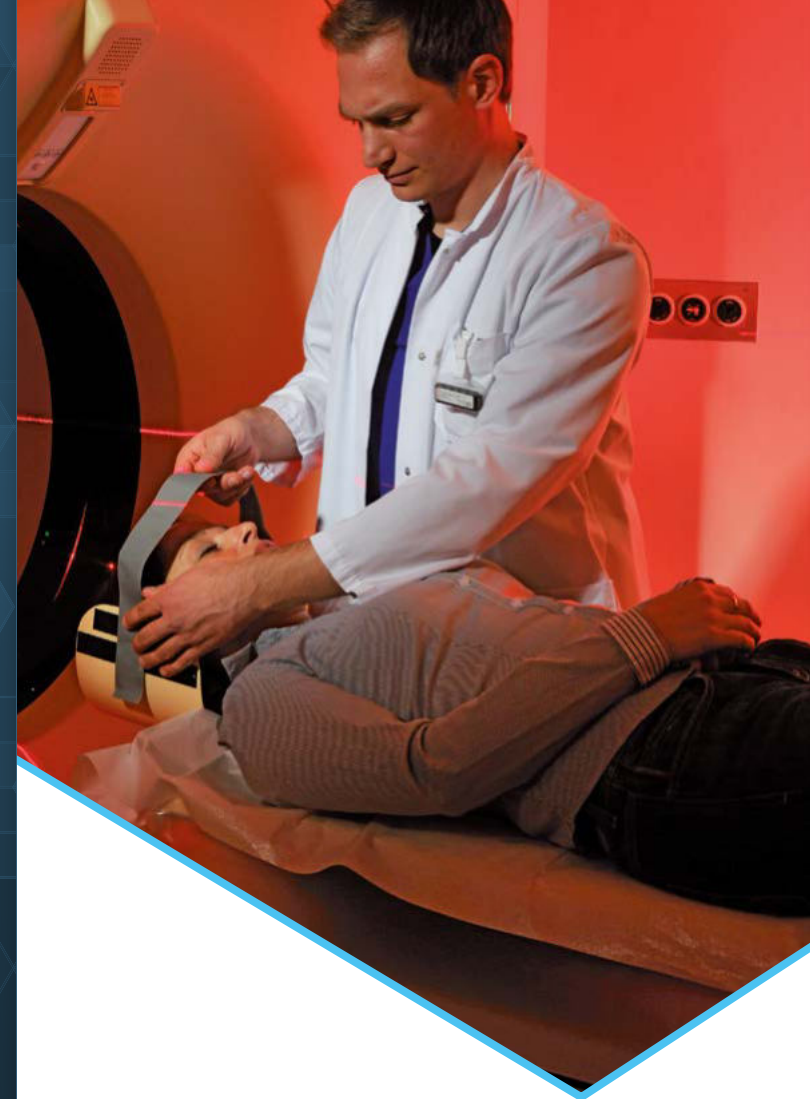
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OSL DOSIMETER PRODUCT INFORMATION

DOSIMETRY SERVICE (AWST)



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WHOLE-BODY DOSIMETER AWST-OSL-GD 01



Special features

In recent years, optically stimulated luminescence (OSL) has become established as a method for measuring personal dose. Our OSL dosimeters are most suitable for the official monitoring of personal dose in photon fields. With state of the art measurement procedures, our OSL dosimeters can cover an energy range that has never been achieved before.

Our OSL dosimeter contains two ceramic beryllium oxide (BeO) detectors. These are located on a plastic card (ABS) inside an ultrasonically welded, light-proof dosimeter cassette. The dosimeters are shipped in a transparent blister made of plastic (PET).

The BeO chips are harmless to health, there is no danger of inhaling beryllium oxide particles.

When ionizing radiation hits the detector, energy is stored in the crystal of the detector. By irradiation with blue light a part of this energy is released again in the form of light. The light intensity is a measure of the absorbed radiation.

Data exchange, such as dosimeter assignment or changes to personal data, is preferably done in electronic form.

As an official personal dosimeter, our OSL dosimeter has a type test certificate from the Physikalisch-Technische Bundesanstalt (PTB).

Details at a glance

- $H_p(10)$ – whole-body dosimeter of the type AWST-OSL-GD 01
- GD 01 PTB type test certificate: DE-17-M-PTB-0026
- Detector: two ceramic BeO chips
- Multiple evaluation possible
- Dosimeter assignment to person (standard)
- Label can be pasted over individually
- Optional support frame in different colors:



Dosimetric data

Type of radiation	Photon radiation
Measured variable	$H_p(10)$ in mSv and Sv
Measuring range	0.1 mSv to 10 Sv

Nominal operating ranges

Photon energy	16 keV to 7 MeV
Radiation incidence direction	$\pm 60^\circ$
Max. possible monitoring period	3 months

Display of the dosimeter probe

Dosimeter cover (light-proof). Upper and lower shells are ultrasonically welded together

Detectors

Detector card

Dosimeter cover (lower shell)

