

Laboratory unit, accessory to the GT-40 and GT-40S

The SH115/300 is a small Gamma Ray shielding designed as a desktop accessory for Gamma Ray Spectrometers of series GT-40/GT-40S. Great attention was paid to minimize weight of the device and maximize shielding efficiency.

- High shielding efficiency
- Desktop configuration
- Easily transportable segments
- Made of steel with lead infill
- Detector is easily removed
- Variety of sample beakers

The shielding is designed as an optional device for new gamma ray spectrometers but is compatible with many older devices using 3x3" detectors or smaller.

The purpose of the shielding is to minimize influence of local background radiation what increases sensitivity of gamma ray scintillometers or spectrometers. Real benefit is that low radioactive samples are measured in relatively short measuring times.

The shielding consists of a base and rings with lead infill. Rings are tightened to the base with screws to block any move. First ring is divided in two halves where one half is fixed to the base and the second one hangs on a hinge and serves as a door. Samples are situated in a measuring chamber behind the door. Size of the chamber is enough for samples with maximum volume around 350 ml. Detector or spectrometer is inserted in a central hole in the rings. A lock constructed in the second ring defines the detector position.

The main application for the shielding is laboratory gamma ray spectrometry. An average suppression of local background is minimum 1 to 10. Suitable for low activity determination in samples of various origins. Due easy assembly/disassembly the shielding is ready for mobile laboratories.



Technical data

Detector opening Diameter max 115 mm, depth max 300 mm

Base size 300 x 400 mm, height adjustable
feets
Thickness 50 mm
Weight 61 kg

Rings Outside diameter 280 mm
Inside hole diameter 115 mm
Thickness 50 mm
Weight 19 kg (R3 - R6), 23 kg R1, R2
Number of rings max 6

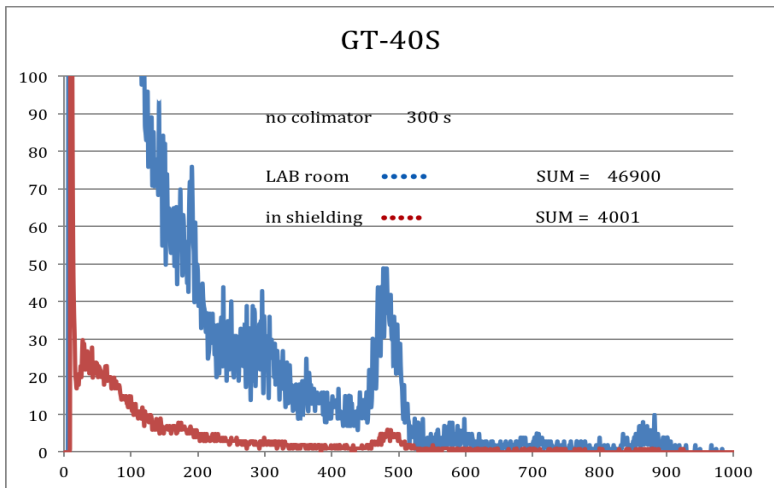
Total weight 180 kg

Transport Weight 210 kg
Size 120 x 80 x 30 cm

Transport packaging Disassembled and fixed to a wooden palette

Options Special assembly for drill core measurements with conveyer

- Applications**
- *Geology*
 - *Construction material monitoring*
 - *Food monitoring*
 - *Waste control*
 - *Scrap metal recycling*
 - *Research laboratories*
 - *Production facilities*



Specifications are subject to change without notice

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