



GammaMat® SE

GammaMat SE Specifications

ISO 3999:2000, class P, category 2

Depleted Uranium Weight

2.7 kg (6 lb)

Overall Dimensions

Length: 220 mm (8.7")

Width: 100 mm (3.9")

Height: 175 mm (6.9")

Accessories

Remote controls: 5, 10, 15 m (5.5, 11, 16.5 yd)

Guide tubes: 1, 2, 3, 5 and 10 m (1.1, 2.2, 3.3, 5.5, 11 yd)

Collimators: 60°, 90° and 360°

Model

GammaMat SE TYPE A

GammaMat SE TYPE B(U)

Max Loading

3.00 TBq (80 Ci) Se-75

4.44 TBq (120 Ci) Se-75

Total Weight

7.2 kg (15.8 lb)

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Highly Portable Se-75 Gamma Ray Projector

The GammaMat SE is a gamma ray projector with unparalleled handiness and extremely low weight. The use of Se-75 radiation source yields improved image quality. The longer half-life and simplified radiation protection result in substantial cost savings. Compared to cameras that use Ir-192 sources, it can be safely used in smaller controlled test areas.

Low Weight

The GammaMat SE is a gamma ray projector that has a uniquely low weight and unrivalled portability. It can be loaded with up to 4.44 TBq of Se-75. The weight of this container is only 7.2 kg (16 lb).

Accessories

The broad range of available accessories for varying applications facilitate streamlined daily inspection work. Special low-weight tungsten collimators for panoramic and directional beam characteristics are available.

Regulatory Approvals

The GammaMat SE gamma ray projector using Se-75 has been designed to comply with the latest versions of the national and international safety standards including ISO 3999:2000.

Unparalleled Safety

A green/red indicator shows whether the source is in the safe position. This indicator is easily visible, even from a distance.

Radiation Characteristics

The Se-75 gamma ray spectrum covers the energy range from 66 keV to 401 keV. Two lines of high intensity, at 137 keV and 265 keV, dominate the spectrum. The radiation characteristics are between Yb-169 towards the lower energies, and Ir-192, towards the higher energies. This makes Se-75 the ideal choice for gamma radiography for a steel wall thickness range of approximately 5 to 30 mm (0.2" to 1.18"). Se-75 provides significantly higher image quality than Ir-192.



www.agiris-ndt.com

Belgium

MDS Nordion S.A.
Zoning Industriel
Avenue de l'Espérance
B-6220 Fleurus, Belgium
Tel: +32 71 82 35 71
Fax: +32 71 82 36 71
supportsources@mds.nordion.be

Canada

MDS Nordion
447 March Road
Ottawa, ON, Canada K2K 1X8
Tel: +1 613 592 2790
Fax: +1 613 592 6937
www.mdsnordion.com