



Selenium 75 (Se-75)

Main Application

Gamma Radiography

Description

Se-75 inside primary vanadium capsule.

Specifications

- Source: Se-75
- Capsule: double capsule (inner vanadium capsule – outer stainless steel capsule)
- Half-life: 119.8 days

Delivery Time

- 2 weeks for 3 x 3 mm and 2.5 x 2.5 mm*
- From 3 to 4 months for other dimensions, depending on reactor schedule

*According to availability

Source Disposal

For each source purchased, Agiris™ will provide free disposal of one source.

Radiation Energies in keV

Gamma

136.002 (59.4%)
121.119 (17.43%)
264.656 (59.5%)
279.538 (25.3%)
Others

Air Kerma Rate at 1 meter:
1.95 mGy/h for 37 GBq
(exposure rate at 1 meter:
0.224 R/h for 1 Ci)

Maximum Focal Spot Size

Active Diameter	Active Height	Equivalent Activity (+/- 10%)
1.0 mm	1.0 mm	185 GBq (5 Ci)
1.5 mm	1.5 mm	370 GBq (10 Ci)
2.0 mm	2.0 mm	1295 GBq (35 Ci)
2.5 mm	2.5 mm	2775 GBq (75 Ci)
3.0 mm	3.0 mm	From 2960 GBq to 4070 GBq (80 Ci to 110 Ci)

Se-75 Capsules

Type	Material	Authorized Activity	ISO Code	AFNOR Code	Certificate Material Special Form
SR-17	Stainless Steel	5180 GBq (140 Ci)	C64535*	–	RUS/6223/S-96
GS75M	Stainless Steel	5180 GBq (140 Ci)	C64535*	–	RUS/6223/S-96

*i: fire tests up to 1200°C



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