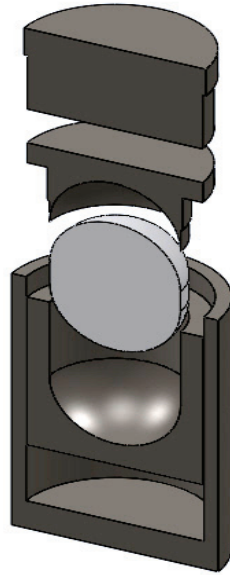




Selenium-75

Selenium-75 is now widely used throughout the world for demanding radiographic applications. The lower energy of Selenium-75 provides improved radiographic contrast sensitivity for thinner materials (0.1-1.2 inches; 2.5-30 mm) than can be achieved with the more commonly-used Iridium-192. This also translates to more effective shielding efficiencies for collimators, portable shields, and radiography devices. Selenium-75 has a significantly longer half-life than Iridium-192.



SPEC⁷⁵Selenium Sources have an optimized focal size and are doubly (and in some cases, triply) encapsulated.

SELENIUM-75 SOURCE MODEL INFORMATION

EXPOSURE DEVICES	 THE ABOVE CABLE END REQUIRES THE BELOW FAIL-SAFE SOURCE CONNECTOR	 THE ABOVE CABLE END REQUIRES THE BELOW BALL & SOCKET SOURCE CONNECTOR	MAX ACTIVITY	SOURCE EXCHANGER
SPEC-150	G-60	N/A	150	SPEC C-1
Sentinel® (QSA Global) 660B	T-5F	T-5	140	SPEC C-1
Sentinel® (QSA Global) 880 Delta	T-5F	T-5	150	SPEC C-1
Sentinel® (QSA Global) 880 Elite	T-5F	T-5	50	SPEC C-1
Sentinel® (QSA Global) 660, 660A	T-5F	T-5	120	SPEC C-1

SELENIUM-75 PHYSICAL DATA

Half-life:	119.8 days
Exposure Rate Constant	0.20 R-m ² /hr-Ci
Energy Range	100-400 keV

AVAILABLE SOURCE SIZES AND ACTIVITIES

FOCAL SIZE (mm)	EXPECTED ACTIVITY (Ci)
1.40	5 to 6
2.20	21 to 25
2.80	43 to 51
3.20	63 to 76
3.80	81 to 96
4.50	100 to 120

