

Mössbauer effect sources :: serial sources

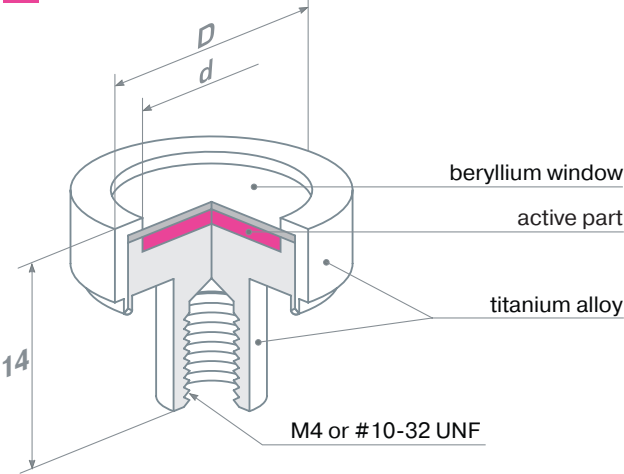
Half-life: 293.1 days

Photon energy: γ 23.87 keV (16.1%)
 XK_{α} 25.27 keV (22.0%)
 XK_{β} 28.57 keV (4.85%)

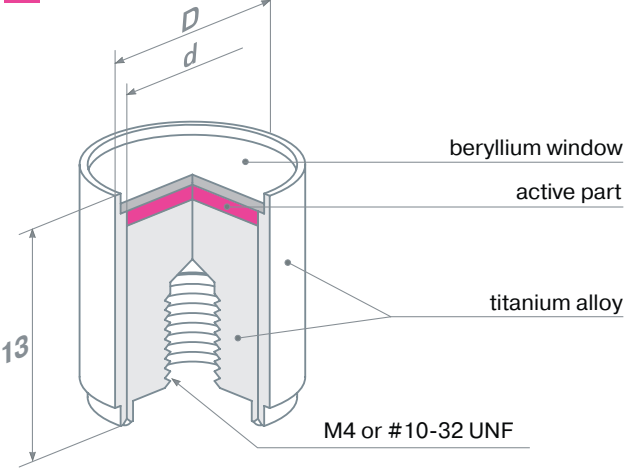
Tin-119m sources are prepared on the basis of standard or requested matrices ($CaSnO_3$, $BaSnO_3$ and SnO_2) synthesized from ^{119m}Sn radionuclide of high specific activity (>300 mCi/g) and radioisotope purity better than 99.9%.

Brazed Beryllium window and laser welding of titanium alloy holder ensure environmental safety against radiation contamination.

1 holder type 1,3



2 holder type 5,6



code			nominal activity*		holder type	dimensions	
SnO ₂ matrix	CaSnO ₃ matrix	BaSnO ₃ matrix	mCi	MBq		D, mm	d**, mm
MSn9.111	MSn9.211	MSn9.311	2	74	1	14	10
MSn9.151	MSn9.251	MSn9.351			5	11.2	10
MSn9.161	MSn9.261	MSn9.361			6	6	5
MSn9.112	MSn9.212	MSn9.312	5	185	1	14	10
MSn9.152	MSn9.252	MSn9.352			5	11.2	10
MSn9.162	MSn9.262	MSn9.362			6	6	5
MSn9.113	MSn9.213	MSn9.333	10	370	1	14	10
MSn9.133	MSn9.233				3	18	15
MSn9.153	MSn9.253				5	11.2	10
MSn9.114	MSn9.234		15	555	1	14	10
MSn9.134					3	18	15
MSn9.154					5	11.2	10
MSn9.135	MSn9.235		20	740	3	18	15

*tolerance: ±10%
 ISO classification: C54243
 recommended working life: 5 years
 FWHM measured with 0.09 mg/cm² ^{119m}Sn barium stannate absorber is less than 0.80 mm/s

**active part diameter