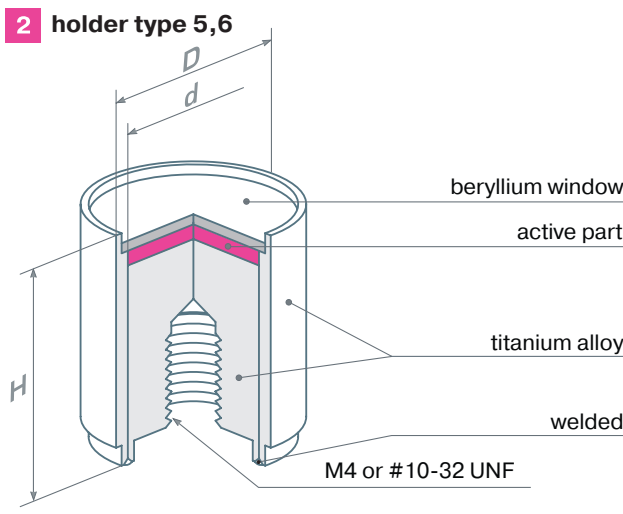
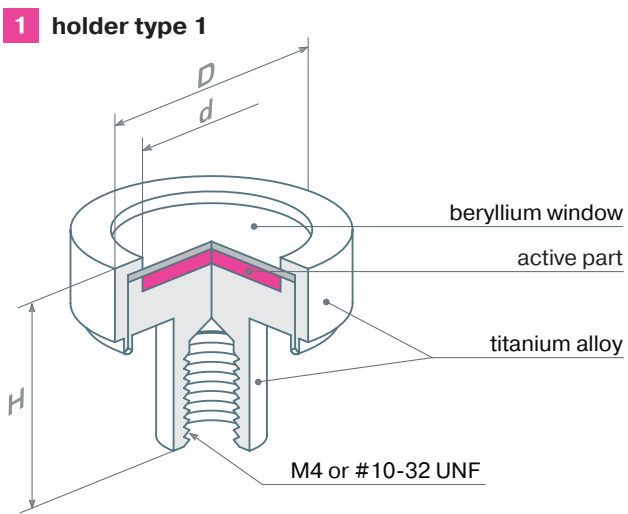


Mössbauer effect sources :: serial sources

Half-life: 271.8 days

Photon energy: γ_1 14.41 keV (9.14%)
 γ_2 122.06 keV (85.68%)
 γ_3 136.47 keV (10.67%)
 XK 6.40 keV (49.8%)

Cobalt-57 active part is prepared by electrodeposition of high purity carrier-free ^{57}Co onto a thin (thickness: 6 μm or less, diameter: 4 - 8 mm) metal matrix followed with controlled annealing process. Standard matrices are rhodium and chromium. Other matrices are available on request. Active part is placed into titanium alloy holder with brazed Beryllium window. Laser welding of titanium alloy holder ensures environmental safety against radiation contamination.



code		nominal activity*		holder type	overall geometric dimensions, DxH, mm	active part, d, mm
Rhodium matrix	Chromium matrix	mCi	MBq			
MCo7.121	MCo7.521	5	185	1	14x14	8
MCo7.111	MCo7.511			5	8	
MCo7.161	MCo7.561			6	4	
MCo7.122	MCo7.522	10	370	1	14x14	8
MCo7.112	MCo7.512			5	8	
MCo7.162	MCo7.562			6	4	
MCo7.123	MCo7.523	25	925	1	14x14	8
MCo7.113	MCo7.513			5	8	
MCo7.124	MCo7.524	50	1850	1	14x14	8
MCo7.114	MCo7.514			5	8	
MCo7.125	MCo7.525	100	3700	1	14x14	8
MCo7.115	MCo7.515			5	8	

*tolerance: $\pm 10\%$
 ISO classification: C54243
 recommended working life: 5 years
 FWHM measured with 27.3 μm $\alpha\text{-Fe}$ foil: 0.230 \div 0.255 mm/s

please turn over

Mössbauer effect sources :: special sources

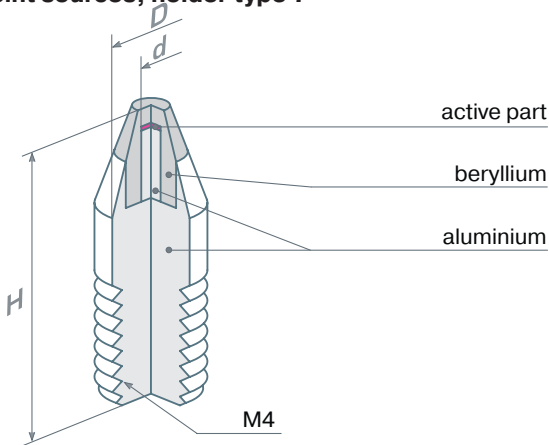
Half-life: 271.8 days

Photon energy:

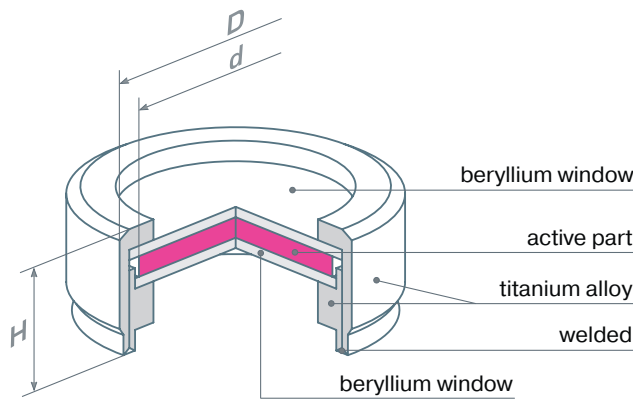
γ_1	14.41 keV	(9.14%)
γ_2	122.06 keV	(85.68%)
γ_3	136.47 keV	(10.67%)
XK	6.40 keV	(49.8%)

Cobalt-57 active part is prepared by electrodeposition of high purity carrier-free ⁵⁷Co onto a thin (thickness: 6 µm or less, diameter: 4 - 8 mm) metal matrix followed with controlled annealing process. Standard matrices are rhodium and chromium. Other matrices are available on request. Active part is placed into titanium alloy holder with brazed Beryllium window. Laser welding of titanium alloy holder ensures environmental safety against radiation contamination.

3 point sources, holder type 7



4 double sided sources, holder type 8



point sources 3

code	nominal activity*		holder type	overall geometric dimensions, DxH, mm	active part, d, mm
	mCi	MBq			
Rhodium matrix			7	4x14	1
MCo7.171	5	185			
MCo7.172	10	370			

*tolerance: ±10%
 ISO classification: C54143
 recommended working life: 5 years

FWHM measured with 27.3 µm α-Fe foil: 0.230 ÷ 0.275 mm/s

double sided sources 4

code	nominal activity*		holder type	overall geometric dimensions, DxH, mm	active part, d**, mm
	mCi	MBq			
Rhodium matrix			8	12x6	10
MCo7.181	5	185			
MCo7.182	10	370			
MCo7.183	25	925			
MCo7.184	50	1850			
MCo7.185	100	3700			

* tolerance: ±10%
 ** other value is available on request
 ISO classification: C54243
 recommended working life: 5 years
 FWHM measured with 27.3 µm α-Fe foil:
 less than 0.230 mm/s

The design of some transducers enables one to fix a source inside a hollow rod. A design like that makes it possible to have two resonance channels operating simultaneously with one source. The second channel may be used for calibration or for second sample measurements. For this purpose the sealed double sided sources are designed.

please turn over