

Sealed Cesium-137 gamma sources

The sources are used in medical devices and equipment, industrial crack radio detectors, process measuring & testing instruments, in chemical industry plants and various process technology applications.

Sources Specifications

Source Type	Dimensions, mm		Active core, mm		Air kerma rate at 1 m distance, Gym^2/h , max	Max. activity (rated value) Bq (Ci)
	Diameter $D^{+0,1}$	Height $H^{+0,1}$	Diameter d	Height h		
GCC-1	8,3	13,2	3; 4,5	3; 6,1	$3,23 \cdot 10^{-4}$	$4,20 \cdot 10^9$ ($1,10 \cdot 10^{-1}$)
GCC-2	10,3	15,2	4,9	5,5	$1,59 \cdot 10^{-2}$	$2,07 \cdot 10^{11}$ (5,60)
GCC-3	18,3	21,2	10,0	9,0	$1,17 \cdot 10^{-1}$	$1,52 \cdot 10^{12}$ ($4,10 \cdot 10^1$)
GCC-4	18,3	27,2	10,0	15,0	$1,96 \cdot 10^{-1}$	$2,55 \cdot 10^{12}$ ($6,9 \cdot 10^1$)
GCC-5	21,3	34,2	15,0	22,0	$6,55 \cdot 10^{-1}$	$8,5 \cdot 10^{12}$ ($2,30 \cdot 10^2$)
GCC-6	37,3	51,2	31,0	39,0	3,99	$5,18 \cdot 10^{13}$ ($1,40 \cdot 10^3$)
GCC-7	40,3	52,2	33,0	40,0	5,70	$7,4 \cdot 10^{13}$ ($2,00 \cdot 10^3$)
GCC-8	13,3	19,7	7,0	7,5	$4,56 \cdot 10^{-2}$	$5,92 \cdot 10^{11}$ ($1,6 \cdot 10^1$)
GCC-9	17,3	28,2	11,0	16,0	$2,48 \cdot 10^{-1}$	$3,22 \cdot 10^{12}$ ($8,7 \cdot 10^{12}$)
GCC-10	17,3	84,7	11,0	72,5	1,11	$1,44 \cdot 10^{13}$ ($3,90 \cdot 10^2$)
GCC-11	22,3	84,7	16,0	72,5	2,45	$3,18 \cdot 10^{13}$ ($8,6 \cdot 10^2$)
GCC-12	13,8	87,2	8,5	75,0	$6,85 \cdot 10^{-1}$	$8,9 \cdot 10^{12}$ ($2,40 \cdot 10^2$)
GCC-13	12,3	16,2	6,0	4,0	$1,79 \cdot 10^{-2}$	$2,33 \cdot 10^{11}$ (6,30)
GCC-14	16,3	22,2	10,0	10,0	$1,29 \cdot 10^{-1}$	$1,67 \cdot 10^{12}$ ($4,50 \cdot 10^1$)
GCC-15	24,3	29,2	18,0	16,5	$7,16 \cdot 10^{-1}$	$9,3 \cdot 10^{12}$ ($2,50 \cdot 10^2$)
GCC-16	29,3	34,2	23,0	22,0	1,46	$1,89 \cdot 10^{13}$ ($5,10 \cdot 10^2$)
GCC-17	10,0	11,5	10,5	11,0	$2,0 \cdot 10^{-1}$	$2,6 \cdot 10^{12}$ (70,0)

Special notes:

1. If so required by the customer, the exposure power rates can be additionally measured at 1 m distance from the source.
2. By agreement with the customer capsule dimensions can be changed provided that it would not cause rising radiation hazard of sources.

GOST 25926-90 classification: C (E) 65546.

Projected service life of the sources – 7 years.