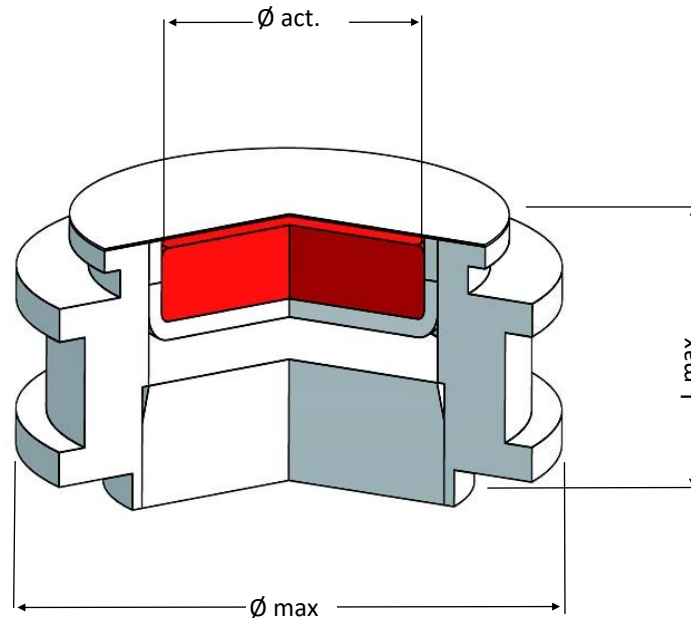


**Sealed Sources for Industrial Gauging.
БИС-10,20,30,40,50 (BIS-10,20,30,40,50) Series Sr-90 Beta Sources**



Technical Specification

Special Form Certificate:	RUS/1001/S-96 for BIS-10 and BIS-20 capsule only
ISO Classification:	C53343
Recommended Working Life:	5 Years
Quality Control Tests	In accordance with ISO2919/ ISO9978
Quality System Compliance	ISO9001
Active Material	Non-leachable matrix of enamel, glass or zeolite loaded with Strontium carbonate
Capsule Material	Capsule: Stainless steel grade 300 series. Active material carrier: Stainless or carbon steel .
CapsuleType	Configuration as above. See table for dimensions

Country of Origin

Sources are designed and manufactured by FSUE "MAYAK" P.A., Lenin Pr., 31, Ozyorsk, 456780, Russia.

Ordering Process

To specify the source required state the capsule code in Russian or English and maximum activity. e.g. BIS-20, 15.6 mCi. Product certification shall use the Russian script product code only.

Contact

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Product Availability

Capsule Type (Official Russian)	Capsule Type (English)	Max. Activity Sr-90 & Y-90	Beta emission (sec ⁻¹)	Φ Max (mm)	φ active (mm)	L max (mm)
БИС-10	BIS-10	3.24 mCi	$(8.0 \pm 4.0) \cdot 10^6$	22	10	10
		15.6 mCi	$(63 \pm 32) \cdot 10^6$			
		32.4 mCi	$(100 \pm 50) \cdot 10^6$			
		59.0 mCi	$(160 \pm 80) \cdot 10^6$			
		162 mCi	$(400 \pm 200) \cdot 10^6$			
		324 mCi	$(630 \pm 320) \cdot 10^6$			
		590 mCi	$(1.00 \pm 0.50) \cdot 10^9$			
		950 mCi	$(1.60 \pm 0.80) \cdot 10^9$			
		1.19 Ci	$(2.00 \pm 1.00) \cdot 10^9$			
БИС-20	BIS-20	3.24 mCi	$(8.0 \pm 4.0) \cdot 10^6$	36	20	15
		15.6 mCi	$(63 \pm 32) \cdot 10^6$			
		32.4 mCi	$(100 \pm 50) \cdot 10^6$			
		59.0 mCi	$(160 \pm 80) \cdot 10^6$			
		162 mCi	$(400 \pm 200) \cdot 10^6$			
		324 mCi	$(630 \pm 320) \cdot 10^6$			
		590 mCi	$(1.00 \pm 0.50) \cdot 10^9$			
		950 mCi	$(1.60 \pm 0.80) \cdot 10^9$			
		1.19 Ci	$(2.00 \pm 1.00) \cdot 10^9$			
		1.78 Ci	$(3.20 \pm 1.60) \cdot 10^9$			
		2.57 Ci	$(4.00 \pm 2.00) \cdot 10^9$			
		2.97 Ci	$(5.00 \pm 2.50) \cdot 10^9$			
		5.90 Ci	$(10.0 \pm 5.00) \cdot 10^9$			
БИС-30	BIS-30	3.24 mCi	$(8.0 \pm 4.0) \cdot 10^6$	46	30	15
		15.6 mCi	$(63 \pm 32) \cdot 10^6$			
		32.4 mCi	$(100 \pm 50) \cdot 10^6$			
		59.0 mCi	$(160 \pm 80) \cdot 10^6$			
		162 mCi	$(400 \pm 200) \cdot 10^6$			
		324 mCi	$(630 \pm 320) \cdot 10^6$			
		590 mCi	$(1.00 \pm 0.50) \cdot 10^9$			
		950 mCi	$(1.60 \pm 0.80) \cdot 10^9$			
		1.19 Ci	$(2.00 \pm 1.00) \cdot 10^9$			
		1.78 Ci	$(3.20 \pm 1.60) \cdot 10^9$			
		2.57 Ci	$(4.00 \pm 2.00) \cdot 10^9$			
		2.97 Ci	$(5.00 \pm 2.50) \cdot 10^9$			
		6.20 Ci	$(10.0 \pm 5.00) \cdot 10^9$			

Note: Capsule Codes БИС-30 БИС-40 БИС-50 (BIS-30,-40,-50) do not have IAEA Special Form

Product Availability

Capsule Type (Official Russian)	Capsule Type (English)	Max. Activity Sr-90 & Y-90	Beta emission (sec ⁻¹)	Φ Max (mm)	φ active (mm)	L max (mm)
БИС-40	BIS-40	3.24 mCi	$(8.0 \pm 4.0) \cdot 10^6$	58	40	16
		15.6 mCi	$(63 \pm 32) \cdot 10^6$			
		32.4 mCi	$(100 \pm 50) \cdot 10^6$			
		59.0 mCi	$(160 \pm 80) \cdot 10^6$			
		162 mCi	$(400 \pm 200) \cdot 10^6$			
		324 mCi	$(630 \pm 320) \cdot 10^6$			
		590 mCi	$(1.00 \pm 0.50) \cdot 10^9$			
		950 mCi	$(1.60 \pm 0.80) \cdot 10^9$			
		1.19 Ci	$(2.00 \pm 1.00) \cdot 10^9$			
		1.78 Ci	$(3.20 \pm 1.60) \cdot 10^9$			
		2.57 Ci	$(4.00 \pm 2.00) \cdot 10^9$			
		2.97 Ci	$(5.00 \pm 2.50) \cdot 10^9$			
		6.20 Ci	$(10.0 \pm 5.00) \cdot 10^9$			
БИС-50	BIS-50	3.24 mCi	$(8.0 \pm 4.0) \cdot 10^6$	70	50	16
		15.6 mCi	$(63 \pm 32) \cdot 10^6$			
		32.4 mCi	$(100 \pm 50) \cdot 10^6$			
		59.0 mCi	$(160 \pm 80) \cdot 10^6$			
		162 mCi	$(400 \pm 200) \cdot 10^6$			
		324 mCi	$(630 \pm 320) \cdot 10^6$			
		590 mCi	$(1.00 \pm 0.50) \cdot 10^9$			
		950 mCi	$(1.60 \pm 0.80) \cdot 10^9$			
		1.19 Ci	$(2.00 \pm 1.00) \cdot 10^9$			
		1.78 Ci	$(3.20 \pm 1.60) \cdot 10^9$			
		2.57 Ci	$(4.00 \pm 2.00) \cdot 10^9$			
		2.97 Ci	$(5.00 \pm 2.50) \cdot 10^9$			
		6.20 Ci	$(10.0 \pm 5.00) \cdot 10^9$			

Note: Capsule Codes БИС-30 БИС-40 БИС-50 (BIS-30,-40,-50) do not have IAEA Special Form

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