



Iridium-192 (Ir-192)

Description

Single or double stainless steel capsule containing Ir-192 pellets for gamma radiography.

Optimal Sharpness

Best NDT Iridium-192 sources are renowned for providing optimal image sharpness. To achieve and maintain this standard of excellence, our pellets are selected for their uniform thickness and geometry, resistance to deformity during reactor activation, and are carefully checked to assure the iridium source is centered in each pellet we produce.

Tailored to Customer Needs

Using combinations of pellets, our sources are manufactured with active diameters ranging from 0.5 to 4.0 mm and active heights ranging from 0.33 to 4.0 mm. Using one pellet, or combining several pellets, allows us to produce a variety of sources to meet all of our customers' needs. Our manufacturing process also provides us with the versatility to make custom sources to the exact dimensions and activities required for specific applications.

Air Kerma Rate at 1 meter

- 1.95 mGy/h for 37 GBq
- 0.224 R/h for 1 Ci

Delivery Time

- 3 to 7 days
- 4 mm available on request with the delivery depending on reactor schedule
- Single or double stainless steel capsules
- Uniform pellet thickness
- Ir-192 centered in each pellet
- Custom sources, diameter-height-activity, are available.



Source Disposal

For each source purchased, Best NDT will provide free disposal for one (1) source.

Specifications

- **Source:** high purity iridium (>99.9%)
- **Capsule:** welded stainless steel (AISI 316L)
- **Half-life:** 73.8 days

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TeamBest[®]
Your True Partner

Ir-192 Source Capsules

- ISO Code: C64545
- AFNOR Code: C64545 (fire tested to 1200° C, and corrosion tested)
- Material: Stainless Steel (AISI 316L)

Type	Activity		Certificate Material Special Form
	GBq	Ci	
G1	7,400	200	B/014/S-96
G3	18,500	500	B/015/S-96
G4	18,500	500	B/013/S-96
G6	7,400	200	B/012/S-96
G10	7,400	200	B/018/S-96
G21	7,400	200	B/020/S-96

Ir-192 Source Sizes

Active Diameter (mm)	Height (mm)	Activity		Active Diameter (mm)	Height (mm)	Activity	
		GBq	Ci			GBq	Ci
0.5	0.50	44	1.2	2.0	2.64	2,590	70
0.6	0.60	81	2.2	2.0	2.97	2,886	78
1.0	0.50	178	4.8	3.0	0.99	2,146	58
1.0	1.00	296	8.0	3.0	1.32	2,738	74
1.2	0.80	333	9.0	3.0	1.65	3,330	90
1.2	1.20	481	13.0	3.0	1.98	3,959	107
1.2	1.60	629	17.0	3.0	2.31	4,588	124
2.0	0.99	1,073	29.0	3.0	2.64	5,180	140
2.0	1.32	1,406	38.0	3.0	2.97	5,698	154
2.0	1.65	1,702	46.0	4.0	3.00	7,770	210
2.0	1.98	1,961	53.0	4.0	3.50	8,880	240
2.0	2.31	2,257	61.0	4.0	4.00	10,360	280

All activities are approximate values 8 days after being unloaded from the reactor.

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