

Iridium-192 Sources

Half-Life	Energy Range	Exposure Rate	Steel Working Range
74 Days	0.206-0.612 MeV	0.48 R/hr at 1 meter per Curie 4.80 mSv/hr at 1 meter per 37GBq	0.47 in - 2.76 in (12 mm - 70 mm)

Device	Source Model	Source Capacity
880 Delta	A424-9	150 Ci (5.55 TBq)
880 Elite	A424-9	50 Ci (1.85 TBq)
880 Omega	A424-9	15 Ci (555 GBq)
865 Series	86520	240 Ci (8.88 TBq)
959 SCAR	95904	15 Ci (555 GBq)
INC-IR100	87703	120 Ci (4.44 TBq)
SPEC-150	969	150 Ci (5.55 TBq)
GammaMat TI Series	8755X	100 Ci (3.7 TBq)
GammaMat TSI 3/1	8755X	80 Ci (2.97 TBq)
GammaMat TSI 5/1	8755X	135 Ci (4.99 TBq)

QSA Global, Inc. offers the most reliable supply and the most versatile array of Ir-192 source dimensions available on today's market. From the standard 100 Ci (3.7 TBq) to the smallest focals with Ir-192 + material, we custom build sources to client specifications.



Ir-192 is used to inspect materials and structures in the density range of approximately 2.71 g/cm³ to 8.53 g/cm³. During a radiographic exposure using Ir-192, an image of the material being inspected is captured on a digital panel, phosphor plate, or film. Ir-192 can be used to inspect pipeline welds, castings, forgings and many other industrial subjects.

Our double-encapsulated Ir-192 sources are constructed by stacking iridium metal discs or pellets of uniform size in a source capsule to form a right-circular cylinder. The Ir-192 source capsule components are constructed of stainless steel, hermetically sealed by laser welding and finished to exacting standards.

Every capsule is subjected to a series of quality inspection tests to ensure weld integrity and uniform wall thickness. The sealed Ir-192 sources are designed and tested to achieve an ISO/ANSI minimum classification of 97C64515 and to comply with the IAEA and USDOT requirements for 'Special Form' radioactive material. The ISO/ANSI classification 97C64515 refers to the complete Ir-192 source capsule which is attached to the source assembly. For the Ir-192 inner special form sealed sources that are used in rod source holders/assemblies, the ISO/ANSI classification is 97E63515.

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