SPEC Tungsten Collimators

Producing higher-resolution images while effectively reducing radiation levels on the job site.

THE ADVANTAGES OF COLLIMATORS

Collimators are one of the most effective means available for reducing the radiation levels on a job site. Collimators also increase the quality of radiography shots by reducing the amount of scatter radiation that reaches the film. Collimators help reduce your restricted area and aid in obtaining As Low As Reasonably Achievable (ALARA) radiation levels. This translates into safer operating conditions for radiographers.

WHY USE TUNGSTEN?

Because tungsten is a more effective shielding material than lead and is an easy-to-handle, non-licensed material, it makes a very effective shielding material. Another feature of the tungsten collimator is that it does not spark, so it is ideal for plant operations. In addition to the standard collimators listed at right, SPEC can build a collimator to your specifications.

Panoramic degree collimators

Side port 90 degree collimators

SPEC SIDE PORT 90 DEGREE MINIMUM BEAM ANGLE COLLIMATORS

ITEM DESCRIPTION	ITEM #
5 Half Value Layers "Mini" Collimator Attaches to the end piece of the source tube and is able to fit into tight spaces. This is the most economical and versatile of all of our collimators. 1-1/2" Diameter x 1-7/8" Length; Weight: 1.75 lbs. Attenuation Factor Iridium-192 (3.125×10^{-2}) 1/32	231001
5 Half Value Layers Slotted Collimator Attaches to the end piece of the source tube and is slotted to sit on the weld. The slot makes it easier to center the weld. 1-1/2" Diameter x 1 7/8" Length; Weight 1.75 lbs. Attenuation Factor Iridium-192 (3.125×10^{-2}) 1/32	231005
8 Half Value Layers Collimator Attaches to the end piece of the source tube. This collimator offers a greater amount of shielding and is still able to fit into small spaces. Best used in situations where distance from the source is a factor. 2" Diameter x 2-5/16" Length; Weight 4.25 lbs. Attenuation Factor Iridium-192 (3.9×10^{-3}) 1/256.	231002
16 Half Value Layers Collimator Attaches to the end of the source tube. The collimator offers even greater shielding, and it is much bulkier than the mini collimator. 3" Diameter x 3 2/5" Length; Weight 16.75 lbs. Attenuation Factor Iridium-192 (1.54×10^{-5}) 1/65000.	231006

SPEC PANORAMIC 360-DEGREE BEAM COLLIMATORS

ITEM DESCRIPTION	ITEM #
4 Half Value Layers Collimator Emits a 360 degree beam around the center and is shielded on the ends. The collimator is best used for taking shots of pipe welds, or tubulars from the inside. 1-1/2" Diameter x 3-1/2" Length; Weight 1.75 lbs. Attenuation Factor Iridium-192 (6.25×10^{-2}) 1/16.	231003
8 Half Value Layers Collimator Emits a 360 degree beam around the center and offers a greater amount of shielding on the ends. The collimator is used for radiographing from the inside of pipe. 1-9/16" Diameter x 4-1/4" Length; Weight 2.5 lbs. Attenuation Factor Iridium-192 (3.9×10^{-3}) 1/256.	231004
13.5 Half Value Layers Collimator Emits a 360 degree beam around the center and offers an even greater amount of shielding on the ends. The collimator is used to radiograph pipe from the inside. 2 1/4" Diameter x 8" Length; Weight 5.5 lbs. Attenuation Factor Iridium-192 (3.08×10^{-5}) 1/32500.	231015

spec SOURCE OF QUALITY

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