

Old technology weighing you down?

Lose 57 lbs with Perflexion™, the world's most innovative flood source.



Smallest. Lightest. Most convenient.
Perflexion sets the new standard.



Isotope Products Laboratories Perflexion flood source eliminates bulk and weight with its unique flexible design and tungsten composite shield. Together with superior source uniformity, low impurities, and excellent durability, Perflexion makes every other source seem, well . . . obsolete.

Only Perflexion gives you:

- **Lightest weight**—weighs less than 29 lbs including the tungsten shield and hard case
- **Smallest form factor**—source rolls to fit in a 6" x 6" x 22" tube for convenient storage
- **Best shielding**—5-10x better than lead cases



For more information on Perflexion or any of IPL's line of nuclear medicine sources, call (800) 551-9767 or visit isotopeproducts.com.

800.409.2688



technologyimaging.com

Perflexion™ Frequently Asked Questions

Q: What is unique about the Perflexion flood source?

A: Perflexion is the world's only flexible flood source. The unique, patent-pending design was developed in response to customer feedback—IPL asked what you wanted in a "perfect" flood source, and overwhelmingly, the response was that our customers hated the lead-lined cases. The only way to reduce the case weight without compromising shielding safety is to change the geometry. We developed the Perflexion flood source to lie flat for calibration use, but to roll into a compact cylinder for storage, to provide the most convenient, ergonomic flood source and case with optimum shielding protection.

Q: How much does the case weigh, and what level of shielding does it provide?

A: The WolfGuard™ tungsten composite used in the Perflexion case provides the best protection on the market—surface measurements outside the shield are typically 0.07mR per hour per mCi Co-57. The external field is so low that the case can even be stored in the camera lab, and the compact profile allows for storage in small spaces. The WolfGuard shield is typically 17 lbs, and when packed in its wheeled storage case, its profile is only 10"x10"x24". In addition, the proprietary WolfGuard tungsten composite eliminates concerns about the use of toxic lead shielding in a hospital environment.

Q: Will the source crack, crease, flake, curl, or tear over time?

A: No. The Perflexion active element material was custom-formulated for IPL, to meet the demands of years of use and abuse. You can fold, bend, crush, and pull this material without deforming or damaging the source, and it will not crease, crack, flake, or tear over time. In addition, the polymer "memory" ensures that the source will return to flatness even after being stored in a rolled configuration. IPL has performed extensive fatigue testing on the polymer, and Perflexion shows excellent integrity and uniformity even after several working lives' worth of fatigue.

Q: What about radiation dose from handling Perflexion?

A: Dose rate monitoring during beta testing indicates that a technician rolling and unrolling the Perflexion source once a day will receive approximately 30-35 mR per year extremity dose. Perflexion can be removed from its WolfGuard shield and positioned on the camera using the attached handles, and so the actual handling time may be equal or less than

for a rigid source with a lead-lined hard case. In addition, the convenient "carry-on-luggage" style wheels and telescoping handle of the hard case allow Perflexion to transport easily in its shield, so technicians will no longer need to risk excess exposure by carrying a bare source from the hot lab in order to avoid the hassle of a large, unwieldy lead-lined case.

Q: What do I do if I need to lift the source off the collimator for imaging, for example by propping it on paper cups?

A: On request, IPL can provide a rigid polycarbonate plate with the dimensions of the Perflexion source, for use in applications where the source needs a rigid support.

Additional Questions?

Please feel free to contact Isotope Products Laboratories:

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