

SYRINGE SHIELDS



The growing use positron emitting isotopes in various nuclear medical procedures has created the need for syringe shields that offer a greater level of protection as compared to the shielding requirements for the lower energy radioisotopes widely used in the past. The relatively high activity of PET isotopes coupled with the need to effectively attenuate 511 keV radiation has necessitated thicker syringe shields to avoid objectionable hand dose to technicians performing repetitive procedures.

In recognition of these needs, ATI Firth

Sterling has developed a proprietary line of tungsten heavy alloy syringe shields for PET isotopes that offer a number of benefits.

These units are presently available in sizes to accommodate most popular brands of 3, 5, 10, and 20 cc disposable syringes including leur-lock types. The shield body offers approximately a 20:1 attenuation of 511 keV radiation (narrow beam calculation using XCOM). Units can easily be completely disassembled for sterilization or cleaning. Custom designs for special use or higher protection level can also be provided.



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Tungsten heavy alloy is completely lead-free, being comprised of tungsten with minor amounts of nickel and iron. It offers a number of advantages as a radiation shielding material for clinical use:

- Good corrosion resistance under ambient conditions
- Low toxicity
- Superior radiation attenuation compared to lead
- Damage resistant due to much higher mechanical properties than lead

ATI Firth Sterling syringe shields offer several features not found on competitive models. The stainless steel thumbscrew permits dependable locking of the syringe

body within the shield for dose drawing and administration and subsequent easy release of the empty syringe into a sharps container. The cylindrical profile of the shield permits its use in various automatic dose drawing fixtures while the burr-free, machined grooves in the outer diameter provide improved gripping by a gloved hand. ATI Firth Sterling syringe shields do not incorporate a lead glass window, thus eliminating both easy damage and a localized radiation hot spot.

When your facility requires syringe shields that offer excellent attenuation at 511 keV, ease of handling, manual or automated functionality, and superior durability, think of ATI Firth Sterling.



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