



PFE/PME/PHE VIAL SHIELDS

LEAD GLASS VIAL SHIELD

ALL ENERGIES



SPECT PET

ASSOCIATED PRODUCTS

- PDA support
- Medicic syringe shields
- Easyview syringe shields
- Easysqueeze syringe shields
- Medi handling tongs
- Positong tongs



The PFE/PME/PHE range of lead glass vial shields is **suitable for a wide range** of low, medium and high activity radiopharmaceutical **vials** for low and medium energy gamma emitting radionuclides (^{99m}Tc , ^{111}In , ^{201}Tl , ^{177}Lu , etc.) and offers operators a radiation protection and ergonomic solution for **storing radioactive liquid preparations** in nuclear medicine, mainly for **SPECT** activity. The PHE model also guarantees an attenuation of more than 99 % when handling high energy radioisotopes such as ^{131}I , ^{18}F , ^{68}Ga .

Offering **unprecedented visual comfort** with its **integral design** in high-density **lead glass** (5.2), it allows a **full 360° view** of the radioactive solutions stored inside as well as **protection of hands and fingers** for daily handling operations. This means that the operator knows the available volume of radiopharmaceutical solution at all times, as well as the identification data of the preparation (volume, activity, batch number, name, radioisotope), thus eliminating any risk of error.

This range of vial shields meets the highest regulatory standards and is approved for sale on the US market.



The innovative design of the lid and its fixing system with 2 O-rings guarantees **secure sealing** of the vial shields. A removable cap, also fitted with an O-ring, allows the preparation to be completely isolated when not in use and prevents leakage.



FOCUS

Positioning and holding of the vial are possible and **secure** with the supply of a wide range of **adaptors** of different thicknesses from 3.5 to 25 mm delivered with the product. The vial is perfectly **stable** and at the right height for **safe sampling**, regardless of its size. The Delrin® material used for the adaptors is extremely light, recyclable and perfectly decontaminable by immersion and soaking in suitable baths.

For an even more ergonomic design, the 3 vial shields can be positioned for in the PDA vial shield supports exclusively designed and distributed by the Lemer Pax & Medisystem group.

CHARACTERISTICS

General	PFE	PME	PHE
External dimensions:	Ø 57 x H 115 mm	Ø 67 x H 115 mm	Ø 86 x H 115 mm
Internal dimensions:	Ø 31 x H 62 mm		
Material	316L stainless steel		
Lead glass thickness:	10 mm	15 mm	24,5 mm
Lead glass density:	5,2		
Radiation protection:	Bottom: 8 mm lead Top: 12 mm tungsten Sides: 10 mm lead glass	Bottom: 8 mm lead Top: 12 mm tungsten Sides: 15 mm lead glass	Bottom: 8 mm lead Top: 12 mm tungsten Sides: 24.5 mm lead glass
Locking system:	Lid + Cap 316L stainless steel / lead and tungsten - Closing system with O-rings		
Adaptors:	Delrin® / Thickness: 3.5 mm - 5 mm - 6,5 mm - 11,5 mm - 25 mm		
Weight:	1,34 kg	1,8 kg	2,9 kg
Package			
Package dimensions:	L 210 x D 150 x H 150 mm		L 320 x D 240 x H 170 mm
Package weight (product without options):	1,5 kg	2 kg	3,5 kg
Ref.:	02250010	02250011	02250012

Radiation protection		PFE	PME
Maximum radioactivity that can be handled to obtain a dose rate less than 25 µSv/h at 5 cm from the walls*			
Radionuclides	Maximum radioactivity that can be handled		
^{99m} Tc	7,56.10 ⁴ TBq	7,07.10 ⁹ TBq	
¹²³ I	132 MBq	307 MBq	
¹¹¹ In	2,81 GBq	129 GBq	
²⁰¹ Tl	1,55.10 ⁴ TBq	1,04.10 ⁹ TBq	
¹⁷⁷ Lu	23,3 GBq	185 GBq	

Radiation protection		PHE
Radionuclides	% of attenuation	
¹⁸ F	99,40 %	
¹³¹ I	99,65 %	
⁶⁸ Ga	99,14 %	

*Regulations in ASN Guide No.32 "In vivo nuclear medicine facilities: minimum technical rules for design, operation and maintenance"