



# PET-Sensitivity-Phantom

## Field of Application

Performance measurements according to NEMA-Standard NU 2-2007 for determination of the count rate of true events/activity (cps/ MBq) for PET-systems like Ring-PET-Scanner and coincidence cameras.

## Product Specifications

- Drawn aluminium tubes with different diameters, same wall thickness
- Line source with application adapter and automatic valve for filling with one-way syringes

## Product Description

The PET-Sensitivity Phantom is including 5 aluminium tubes and the line source.

The aluminium tubes fit into each other so that during measurement the absorption thickness can be increased step-by-step and according to definition. The inner tube holds the line source. On both ends its has

## Advantages

- ✓ High precision of the 700 mm line source
- ✓ Problem-free and air bubble-free filling of the line source

aluminium washers for easy positioning.

The line source is made from polyethylene-tube material with an application adapter for filling with one-way syringe and at the other end with a semi-automatic valve device.

## Specifications Phantom Body

Type of phantom:	PET-Sensitivity-Phantom
Material:	Aluminium
Measuring length:	700 mm
Length with add-on pieces:	720 mm
Total weight of the phantom:	2,1 kg

## Specifications Line source

Material of the line source:	Polyethylene
External diameter:	5 mm
Internal diameter:	3 mm
Filling:	Application adapter with replaceable rubber joints
Ventilation:	semi-automatic valve

## Accessories

Set of pricking-rubber joints (20 pcs.)

*Sensitivity-Phantom with line source. Application is done with one-way syringe, the pricking-rubber joints can easily be replaced.*

## Dimensions of the Phantom Tubes

Tube	External diameter	Wall thickn.	Length
# 1	9,5 mm (3/8")	1,22 mm	700 mm
# 2	12,7 mm (5/8")	1,22 mm	700 mm
# 3	15,9 mm (1/2")	1,22 mm	700 mm
# 4	19,1 mm (5/8")	1,22 mm	700 mm
# 5	22,2 mm (3/4")	1,22 mm	700 mm

