

# • Point & wide area sources • X-ray sources •

X-ray sources are used for calibration of all X-ray detectors (proportional counters, solid-state counters, etc.).

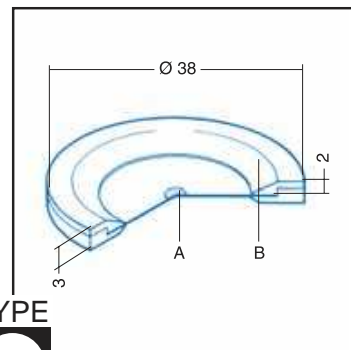
## • Technique

These sources are characterized in terms of photon flux  $X_k$  within  $4\pi$  sr, expressed in  $s^{-1}$ .  
The 4 mm active diameter is hot-sealed between two thin plastic foils (total mass per unit area:  $12\text{ mg}\cdot\text{cm}^{-2}$ ).

They are mounted in a plastic ring to ensure rigidity and best of handling.



Non-biding color



TYPE



A : active area, diameter 4 mm  
B : plastic ring, thickness 3 mm

## X-ray sources

Radionuclide Half-life	Radiation energy (MeV) $X_k$	Product code	X-ray flux $s^{-1}$ (*)	Approximate activity kBq(*)	Outside Diameter mm	Type	Measurement uncertainty %
$^{109}\text{Cd} + ^{109}\text{Ag}^m$ $4,63 \times 10^2$ days	0,022	CD109EXSB10	$16 \times 10^3$	13,5	38	B	3,5
$^{55}\text{Fe}$ $9,79 \times 10^2$ days	0,006	FE55EXSB10	$16 \times 10^3$	65	38	B	3
$^{85}\text{Sr}$ $6,49 \times 10^1$ days	0,013	SR85EXSB10	$16 \times 10^3$	30	38	B	4
$^{65}\text{Zn}$ $2,44 \times 10^2$ days	0,008	ZN65EXSB10	$16 \times 10^3$	40	38	B	5,5

(\*) Manufacturing tolerance  $\pm 30\%$

## • Made-to-measure sources upon request

Activity flux on request

Radionuclide      Type of holder  
**FE55EXSB200KBQ**  
Type of product      Required activity (kBq)  
(X-ray standard)

To order : see Commercial Information on pages 1.1 - 1.5 of the INFORMATION section