

# IsoSeed® I-125

## Loose Seeds for Prostate Cancer Treatment



### IsoSeed® I-125

IsoSeed® characterizes two well-established sealed source models to treat prostate cancer effectively.

**"Made in Germany" quality combined with fast product delivery and reliable service.**

#### IsoSeed® I-125 for Prostate Cancer Treatment

These seeds are intended for the permanent treatment of localized prostate cancer. They are delivered as sterile loose IsoSeeds or loaded in Mick® Magazines and are implanted using needles.

#### Implantation with the Mick® TP/TPV Applicator

Each Mick® Magazine has a capacity of 15 IsoSeeds. With the Mick® TP/TPV Applicator, IsoSeed® can be implanted in any desired seed spacing distance, thus allowing a geometrically unrestricted prostate seed distribution.

#### Good Visibility

At Eckert & Ziegler BEBIG, the customer can choose between two different sealed source models for prostate cancer treatment: I25.S17plus and I25.S06. Both seed models are visible under X-ray, fluoroscopy, CT, and MR and demonstrate good ultrasound visibility.

- IsoSeed® I25.S17plus features a full size silver marker and has been designed for visibility under X-ray and fluoroscopic imaging. In addition, it enables MR imaging and opens new perspectives for postoperative planning.
- IsoSeed® I25.S06 contains a thin gold marker within a ceramic carrier, diminishing artifacts and providing good visibility in CT imaging.

#### "Made in Germany" Quality

The seed production at Eckert & Ziegler BEBIG is performed at the manufacturing facility in Berlin, Germany. It operates under strict quality and regulatory standards. Each single IsoSeed® is required to pass rigorous quality inspections at every production stage before proceeding to the next step.

#### Calibration to NIST and PTB

The certified source strength of IsoSeed® is based on air kerma measurements. The source strength of IsoSeed® I25.S17plus and IsoSeed® I25.S06 are calibrated traceable to the primary standard of the NIST (National Institute of Standards and Technology), USA and/or of the National Metrology Institute of Germany (PTB).

#### Guaranteed Biocompatibility

The titanium capsule of IsoSeed® is made of implant grade material. The finished products have been tested for biocompatibility.

#### On Time Delivery

Due to its geographical localization in the heart of Europe and intelligent stock management, Eckert & Ziegler BEBIG is able to provide IsoSeed® quickly and reliably, allowing flexible patient scheduling.

#### Reliable & Competent Service

Eckert & Ziegler BEBIG is a complete brachytherapy provider whose staff consists of experienced application specialists and service technicians, supported by an extensive network of technical and clinical experts. Eckert & Ziegler BEBIG staff is available to answer inquiries related to seed implantation. Additionally, Eckert & Ziegler BEBIG offers full installation to hospitals, including treatment planning systems, ultrasound scanners and a complete range of accessories.



**Eckert & Ziegler**

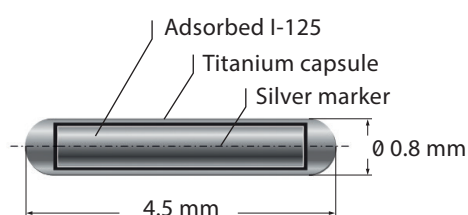
# IsoSeed® I-125

## IsoSeed® I25.S17plus and I25.S06 for Prostate Cancer Treatment

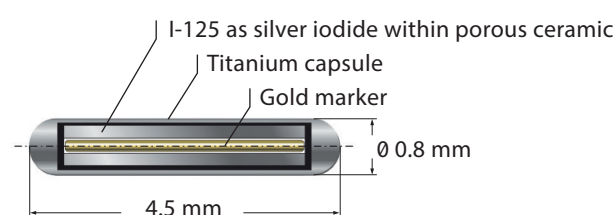
- IsoSeed® is supplied sterile either loose or loaded in Mick® Magazines
- Eckert & Ziegler BEBIG's seeds are delivered in a shielded stainless steel container
- Ordering number for seeds loaded in Mick® Magazine: I25.S17plus-SM or I25.S06-SM
- Ordering number for loose seeds: I25.S17plus-SL or I25.S06-SL



*IsoSeed® in Mick® Magazine with shielded container and inserted in Mick® TP/TPV Applicator*



*IsoSeed® I25.S17plus features a full size silver marker for fluoroscopy and MR imaging*



*IsoSeed® I25.S06 contains a thin gold marker specifically designed for optimal visibility in CT imaging*

Class number	Air kerma rate in $\mu\text{Gy/h}$	Apparent activity in mCi	Apparent activity in MBq
-5	0.240 – 0.259	0.189 – 0.204	6.99 – 7.55
-4	0.260 – 0.281	0.205 – 0.221	7.59 – 8.18
-3	0.282 – 0.305	0.222 – 0.240	8.21 – 8.88
-2	0.306 – 0.330	0.241 – 0.260	8.92 – 9.62
-1	0.331 – 0.358	0.261 – 0.282	9.66 – 10.43
0	0.359 – 0.390	0.283 – 0.307	10.47 – 11.36
1	0.391 – 0.423	0.308 – 0.333	11.40 – 12.32
2	0.424 – 0.459	0.334 – 0.361	12.36 – 13.36
3	0.460 – 0.498	0.362 – 0.392	13.39 – 14.50
4	0.499 – 0.540	0.393 – 0.425	14.54 – 15.73
5	0.541 – 0.586	0.426 – 0.461	15.76 – 17.06
6	0.587 – 0.637	0.462 – 0.501	17.09 – 18.54
7	0.638 – 0.690	0.502 – 0.543	18.57 – 20.09
8	0.691 – 0.749	0.544 – 0.590	20.13 – 21.83
9	0.750 – 0.813	0.591 – 0.640	21.87 – 23.68
10	0.814 – 0.882	0.641 – 0.694	23.72 – 25.68
11	0.883 – 0.958	0.695 – 0.754	25.72 – 27.90
12	0.959 – 1.039	0.755 – 0.818	27.94 – 30.27
13	1.040 – 1.127	0.819 – 0.887	30.30 – 32.82
14	1.128 – 1.223	0.888 – 0.963	32.86 – 35.63

*Activity classes IsoSeed® I25.S17plus for Prostate Cancer Treatment*

Class number	Air kerma rate in $\mu\text{Gy/h}$	Apparent activity in mCi	Apparent activity in MBq
1	0.357 – 0.386	0.281 – 0.304	10.38 – 11.26
2	0.387 – 0.419	0.305 – 0.330	11.27 – 12.21
3	0.420 – 0.455	0.331 – 0.358	12.22 – 13.25
4	0.456 – 0.493	0.359 – 0.388	13.26 – 14.38
5	0.494 – 0.535	0.389 – 0.421	14.39 – 15.61
6	0.536 – 0.581	0.422 – 0.457	15.62 – 16.94
7	0.582 – 0.630	0.458 – 0.496	16.95 – 18.38
8	0.631 – 0.684	0.497 – 0.539	18.39 – 19.94
9	0.685 – 0.742	0.540 – 0.584	19.95 – 21.64
10	0.743 – 0.806	0.585 – 0.634	21.65 – 23.48
11	0.807 – 0.874	0.635 – 0.688	23.49 – 25.48
12	0.875 – 0.949	0.689 – 0.747	25.49 – 27.65
13	0.950 – 1.029	0.748 – 0.811	27.66 – 30.00
14	1.030 – 1.117	0.812 – 0.880	30.01 – 32.56

*Activity classes IsoSeed® I25.S06 for Prostate Cancer Treatment*

IsoSeed and Mick are registered trademarks of Eckert & Ziegler BEBIG GmbH and its subsidiaries.

The mentioned products are not available in all markets. Please contact your local Eckert & Ziegler BEBIG representative for more information.

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