

High - Grade Materials for the Irradiation - Industry

Heraeus is regarded worldwide as a leading supplier of materials used for irradiation purposes.

The exacting requirements and highest quality of Heraeus products ensure that Heraeus is the ideal partner for companies operating in this field. Our future-oriented technology and know-how in this area is available for the use of our customers.

Together with our customers we work out solutions suitable for diverse applications, using Heraeus know-how, Heraeus materials and Heraeus manufacturing techniques.



Heraeus:
Giving you the advantage

Diverse Products for the Irradiation - Industry

Materials	Purity	Form
Iridium	99,9 % min. / 99,99 % min.	Discs / Pellets
Cobalt	99,7 % min.	Discs / Pellets Cylinder (all items available with electroplating Ni-layer μm -range)
Platinum - Platinum/Iridium	Pt 99,9 % min. / 99,99 % min. Ir 99,9 % min. / 99,99 % min.	Wire (0,3 - 0,6 mm dia.): Core Pt / Ir - alloy sheath Platinum
Gold	Au 99,9 % min. / 99,99 % min. Pt 99,9 % min. / 99,99 % min.	Au-Seeds with Pt-sheath

Dimensions for Ir-Discs

Tolerances	$\pm 0,03 \text{ mm} / +0,06 \text{ mm}$ and others
Typical Diameters	from 0,500 mm to 4,00 mm
Typical Wide / Length	from 0,120 mm to 5,00 mm (other dimensions on request)



Other parts (Cobalt, Platinum - Platinum/Iridium, Gold) to customers design.

Applications

- Radiographic Treatment
- Sterilisation
- Material - Testing

Weighing - System

For irradiation purposes, the mass of the components is the key-factor.

As a consequence, W. C. Heraeus has invested in a system, which is capable to finely sort batches into precise weight classifications.

This allows irradiation service providers to locate the discs in their reactor accordingly.

Stacking and achieving the precise mass of the required number of discs makes it easier to meet the exact radiation-output the end-user demands.



Specification

- Spoon-shaped balance with rotating mechanism
- Weighing-System: 0.1 mg precision
- Distribution over 7 weight-classifications is possible
- Hitech software for measuring, protocolling and statistical evaluation and traceability

Advantages

- Weight of each individual Ir-disc can be determined
- Display/Print out of weighing protocol of complete batch
- Automatic sorting of Ir-discs into 7 weight-classifications
- Enables Irradiation Service providers to pile/stack the necessary number of discs to meet the required radiation (Curie) value more precisely
- Ir-discs can be placed into the reactor proportionally to their mass

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The data given in this brochure are correct for September 2005. We reserve the right to make technical alterations as necessary.