



Center for Technology Transfer and Marketing

CTTM

Ionizing radiation detector cavity

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DESCRIPTION

The invention relates to a detector employed for measuring dosimetric quantities. According to the invention, the detector consists of a cylindrical body made of a mixture of teflon, graphite and zeolite, homogenized, sintered and pressed in a cylindrical shape, having a wall thickness of up to 1 mm, containing a collecting electrode (1) placed inside a voltage electrode made of the same mixture, coated with a metallic tin coat, the electrodes being sealed by means of a sealing element and electrically insulated by means of a polystyrene insulator, some pins, namely a collecting pin and an external pin for taking over the signal, an inlet pipe achieving the coupling to a vacuum installation, the insulator and the collecting pin being fixed to the detector body by means of a mechanical element, a supply clip and a resilient element.

APPLICATION DOMAINS

Ionizing radiation detector cavity type ionization chamber, used to measure dosimetric with dosimetry applications, radiometric control and measurement of environmental and nuclear tests.

MAIN ADVANTAGES

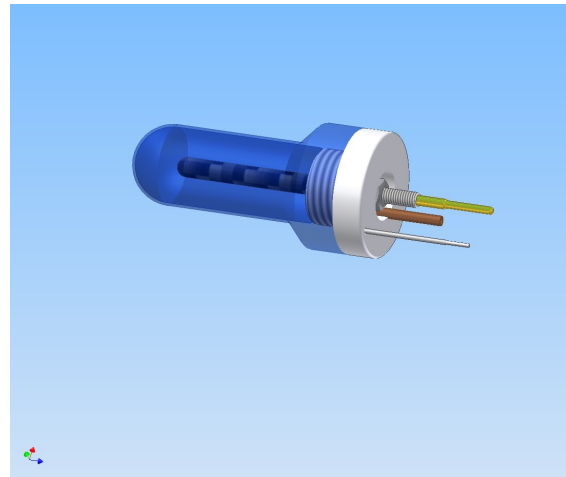
Reliability, high sensitivity detection, may be a secondary or primary standard for measuring the radiation field

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POTENTIAL CUSTOMERS OR COMMERCIAL APPLICATIONS

Dosimetric laboratories.

KEYWORDS

Cavity, detector, dosimetry.