



## PRODUCT NOTE

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SUBJECT: Care of Exradin M1 and M2 Magnesium Ionization Chambers

The following information is provided as a service to our users and customers:

Exradin M1 and M2 Magnesium Ionization Chambers are manufactured from pure magnesium, a chemically active material. Due to the physical nature of this material, the response of Magnesium Ionization Chambers will change over time.

To evaluate the change in signal of a magnesium chamber, the signal should be cross calibrated with a chamber of known stability before each use. This can be done with an in-air comparison jig that suspends both chambers in a external therapy beam in a reproducible manner. Any change in the signal of the magnesium chamber can be noted by this comparison, and the change accounted for during the following measurements.

*The following precautions are meant to help slow down these changes:*

Magnesium reacts slowly in cold water and humid atmospheres, and it oxidizes in air. These reactions increase with temperature. When not in use, store the magnesium chamber in a cool dry location. An airtight container with a fresh desiccant is recommended.

It is not recommended that the magnesium chamber be submerged in a water tank. If necessary, carefully cover the chamber with a protective plastic covering. When measurements have been completed, dry the chamber and the cable thoroughly and return it to the desiccant storage container.

Avoid exposure to acids, halogens or heat.

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