MediRay™

On the Cutting Edge of Lead Casting Since 1970

Types Of Radiation Shielding Materials

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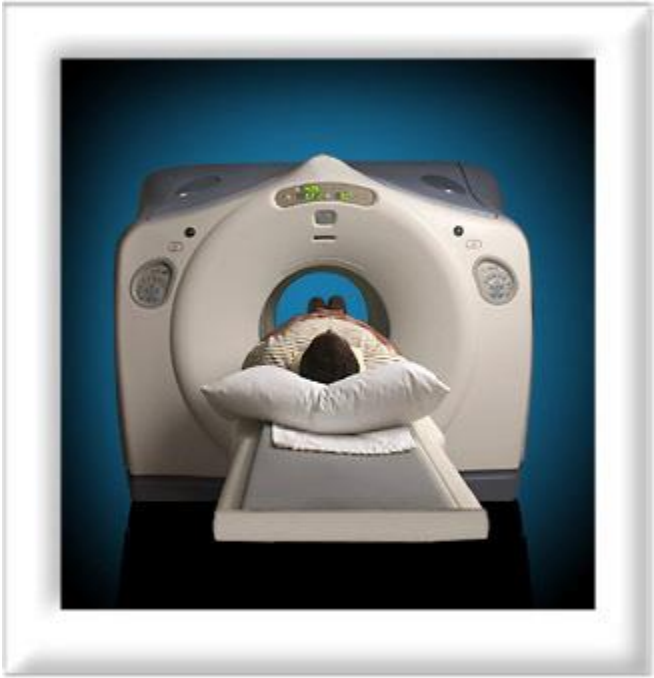
Medi-Ray™ is the hallmark of radiation safety, shielding solutions and counterweight design.

Radiation Shielding

- Radiation shielding is the use of material or devices that protect against ionizing radiation.



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Lead is the Best Radiation Shielding Metal

The properties of lead which makes it an excellent shielding material are its:

- density,
- high atomic number,
- high level of stability,
- ease of fabrication,
- High degree of flexibility in application, and
- its availability.

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Different types of radiation shielding materials

Traditional Lead Shielding

- The high density of lead (11.34 grams per cm^3) makes it a useful shield against X-ray and gamma-ray radiation.
- To transform pure lead into a wearable radiation shielding material it's mixed with binders and additives to make a flexible lead vinyl sheet.
- The lead sheets are then layered to the desired thickness to achieve the required lead equivalency and incorporated into the radiation shielding garment.

Lead Composite Shielding

- Lead composite shielding is a mixture of lead and other lighter weight metals.
- These lead-based composite blends are a proprietary mixture of lead and other heavy metals that attenuate radiation.
- The lead-based composite blend radiation shielding garments are lighter (up to 25%) than regular grade lead and are available with the same lead equivalency protection levels.

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Non-Lead and Lead-Free Shielding

- Non-lead shielding materials are manufactured with additives and binders mixed with attenuating heavy metals that fall into the same category of materials as lead that also absorb or block radiation.
- Non-lead aprons and lead-free aprons are recyclable and safe for non-hazardous disposal.

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Contact Us:

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