

SWX-462 Gamma Shielding

Iron Loaded Gamma Putty

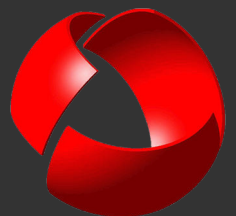


SWX-462

- It is non-hardening and it will not dry out to form a powder
- Reusable and lead-free
- Provided in 10 lb. (4.5 kg) cans

SWX-462 Gamma Putty is a malleable gamma shielding clay that contains no lead. It is a lower density, more economical material than our SWX-262 bismuth-based putty. It contains iron powder that is uniformly distributed throughout the LDPE binder material to insure there are no gamma streaming paths. The additive is elemental iron, 70% by weight, and the material will not dry out to form a powder. It is supplied in chunks that are readily pliable by hand and holds its shape after placement.

Typical applications include temporary gamma shielding during reactor maintenance, shielding for cable tray penetrations, and industrial radiographic film masking. Disposable gloves are recommended when handling as the putty is quite sticky.





SWX-462 Gamma Shielding

Specifications

Composition Data

Hydrogen atom density/ cm ³ :	6.19 x 10 ²²
Hydrogen weight percent:	4.31 %
Iron atom density/ cm ³ :	1.81 x 10 ²²
Iron weight percent:	70.0 %
Total Density	2.40 g / cm ³ (156 lbs / ft ³)

Radiation Properties

	0.07 cm ⁻¹
Gamma resistance:	5 x 10 ⁸ rad
Neutron resistance:	2.5 x 10 ¹⁷ n / cm ²

Physical Properties

State	Putty
Color	Gray
Odor	No significant odor
Machinability:	Poor

Thermal Properties

Recommended Temperature Limit:	110 °F (45 °C)
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Chemical Properties

Chemical Name & Synonyms:	Iron poly putty (LDPE)
Trade Name & Synonyms:	SWX -462 Gamma Putty

