

SUPPLIERS TO INDUSTRY

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Technical Data Sheet

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Issue 1.0

RADIFEND Silicone Radiation Shielding (Flat Sheet Versions)

PRODUCT DESCRIPTION

Radifend is a totally encapsulated radiation shielding system for use in the nuclear, defence and Non Destructive Testing (NDT) industries.

Available in standard, custom sizes and moulded shapes, Radifend provides a unique method of radiation protection in many different gamma & x-ray shielding situations.

FEATURES

- Flexible material – can be bent and shaped allowing installation in difficult to access locations.
- Low in chlorine, fluorine and sulphur for use in contact with stainless steel.
- Easily cleaned means Radifend can be reused many times.
- Encased and hermetically sealed means there are no sharp edges.
- Fire Retardant
- Complete protection is guaranteed by the homogenous shielding material which cannot slump to the bottom as with conventional PVC bags.
- Resistant to high temperatures
- Integral polymer reinforcement for added strength.
- Available in bespoke moulded shapes.
- Full technical and product support.

PRODUCT DATA (Standard items)

Stock Code	Dimensions	Weight (approx)
RAD/000/000/0001	915 x 305 x 9.5 mm	11.0 kg
RAD/000/000/0002	915 x 305 x 16 mm	21.0 kg

(Non-standard sizes & thicknesses available to order)

Optional extras

Stainless Steel Eyelets	Factory fitted to Radifend flat sheets for hanging purposes.
Stainless Steel Hooks	Various designs of hooks are available
PVC Protective Bag	Designed to provide extra protection to product when used in harsh Non- Destructive Testing Environments.

Please enquire for advice and ordering instructions with regard to the above items.



Shielding Characteristics

Thickness	Source	Attenuation	Attenuation Factor	Lead Equivalence
9.5 mm	Cobalt 60	20%	1.25	3.3 mm
	Caesium 137	34%	1.51	3.2 mm
16 mm	Cobalt 60	34%	1.51	6.2 mm
	Caesium 137	52%	2.10	5.9 mm

All radiological tests carried out in laboratory conditions by Public Health England in accordance with IEC 61331-1:2014.

Chemical Analysis – Outer laminate

Element	Test Method	Analysis
Chlorine	ASTM D7359 Mod	22.0 mg/kg
Fluorine	ASTM D7359 Mod	2.3 mg/kg
Sulphur	EN ISO 8754	171.7 mg/kg

Temperature Range -85 to 200C

Other Radifend products include pipewraps and custom mouldings to suit customer specific applications. Please enquire for further information.

Precaution:

For complete safety and handling information, please refer to the appropriate Material safety Data Sheet prior to using this product.

Warranty:

Thomson Bros will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control we can accept no liability for the results obtained.

Disclaimer: All information on this data sheet is based on laboratory testing and is not intended for design purposes. All dimensions and weights are nominal and subject to manufacturing tolerances. Thomson Bros make no representations or warranties of any kind concerning this data.

For technical assistance please call + 44 (0)191 2160397