

Lead Blankets

Specifications Document

npo[®]

A BRAND OF
EICHROM TECHNOLOGIES



One of NPO's most recognized shielding products is the lead wool blanket. Built to last, the proven strength and durability of these blankets are found within their formulation and construction. Each blanket is layered in a continuous lead wool rope, minimizing gaps and increasing attenuation.

SPECIFICATIONS

Lead Blankets

MATERIAL:	REINFORCED POLYVINYLCHLORIDE ENCASED LEAD WOOL (TYPE II, GRADE C)
SAFETY:	REFER TO SDS (SEPARATE DOCUMENT)
SITE PREPARATION:	ENSURE SURFACE IS FREE OF PROTRUSION OR SHARP AREAS. CONSIDER ALL INSTALLATION CONDITIONS
USAGE:	SECURE VIA GROMMETS, MAGNETS, STRAPS, OR OTHER SPECIFIED DEVICES
GENERAL CONDITION:	CLEAN, FREE FROM CRACKS AND HOLES, YELLOW IN COLOR (OPTIONAL: SILICONE COATED FIBERGLASS COVER FOR HIGH TEMPERATURE APPLICATIONS, OTHER COLORS OF PVC)
HANDLING:	TRAINING OR A MOCK UP DEMONSTRATION IS RECOMMENDED BEFORE INSTALLATION
CLOSURE TYPE:	RADIOFREQUENCY SEALED (OPTIONAL: SEWN)
GROMMET STRENGTH:	250 LB
SURFACE DENSITY:	10 LB/FT ² , 15 LB/FT ² , 20 LB/FT ²
THERMAL PROPERTIES:	MAX TEMPERATURE: 150°F (500°F+ WITH SILICONE COATED FIBERGLASS COVER) ASTM E84: CLASS A—FLAME SPREAD INDEX: 15, SMOKE DEVELOPED INDEX: 300 NFP 92-503 ELECTRIC BURNER TEST ^(WH) : CLASS M1
ATTENUATION:	SEE APPENDIX A
LEACHABLES:	SEE APPENDIX B

Lead Blankets

Specifications Document



A BRAND OF
EICHROM TECHNOLOGIES

Appendix A

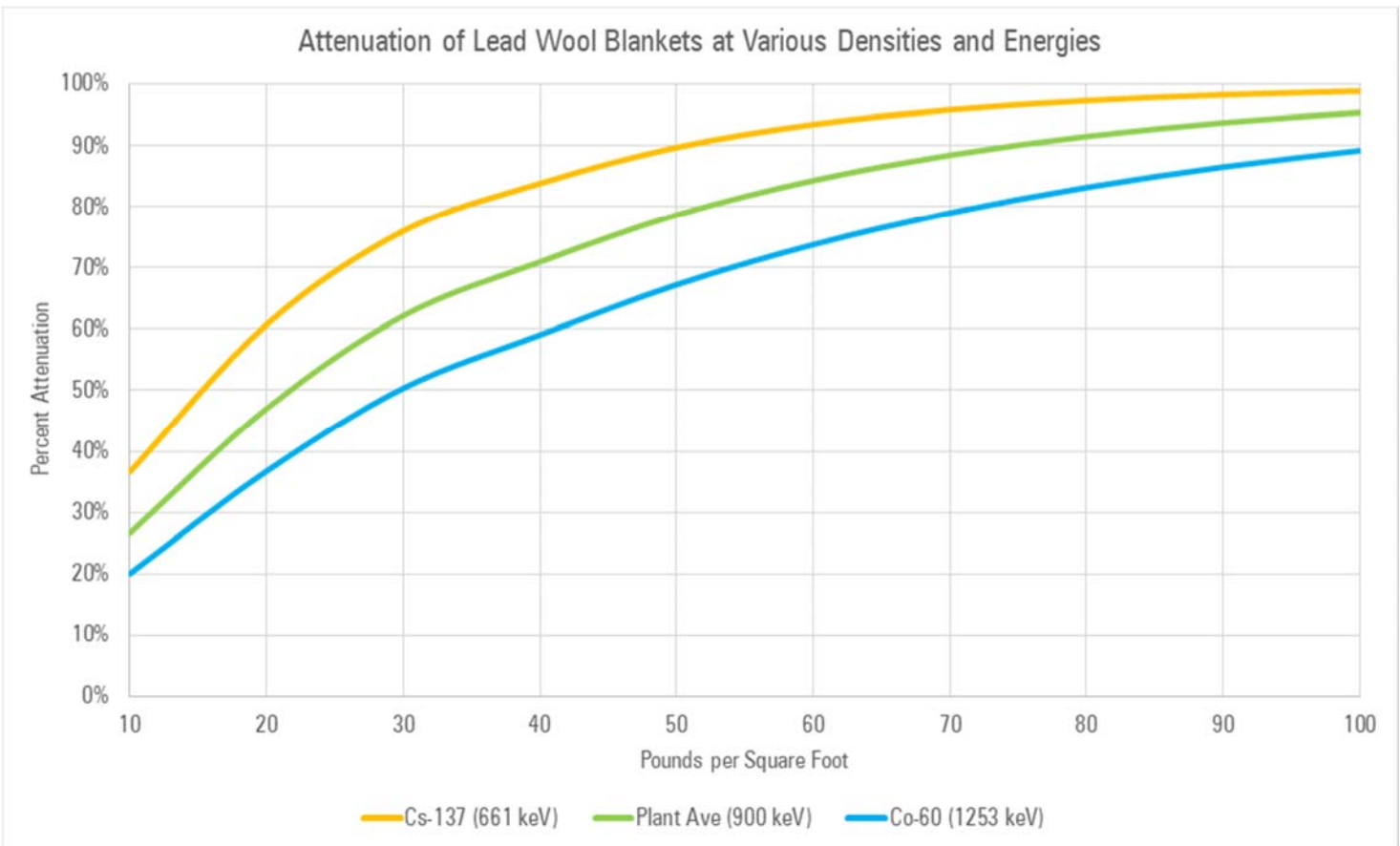
Lead Blankets

Specifications Document



A BRAND OF
EICHROM TECHNOLOGIES

Attenuation for Lead Wool Blankets										
Material	Pounds per Square Foot									
	10	20	30	40	50	60	70	80	90	100
Plant Average	27%	47%	62%	71%	79%	84%	89%	92%	94%	96%
Cs-137	37%	61%	76%	84%	90%	94%	96%	97%	98%	99%
Co-60	20%	37%	50%	59%	67%	74%	79%	83%	87%	89%



Lead Blankets

Specifications Document



A BRAND OF
EICHROM TECHNOLOGIES

Appendix B

Lead Blankets

Specifications Document



A BRAND OF
EICHROM TECHNOLOGIES

Testing of NPO Materials for Water Leachable Impurities

Sample*	Part	Lot	mass,g	ppm (mg/kg sample)				
				Fluoride ^a	Chloride ^b	Bromide ^c	Sulfur as (SO ₄ ²⁻) ^d	Mercury ^e
Blue MS PVC	RS-PVBU-18012-01	11041529732	20.4	0.56	7.4	0.20	<1.2	ND (<5.0)
White MS PVC	RS-PVWH-18012-05	11041529731	22.1	2.7	3.8	0.27	<1.1	ND (<5.0)

*Sample Leached at 95°C with 500mL water for one hour, concentrated to 50mL at 27°C

^aFluoride selective electrode (ASTM Method D1179-93)

^bChloride selective electrode (ASTM Method D512-89)

^cBromide selective electrode (ASTM Method D1246-95)

^dBaSO₄ precipitation (ASTM Method D516-90, modified for Ba-133 gamma emission on 0.1µm filter)

Analyst: Daniel McAlister (Notebook 167 - DRM.29.114) 09OCT14 to 16OCT14

^eCombusted with oxygen in a Parr[®] combustion vessel in presence of dilute acid, then analyzed using ICP-OES (Method MIL-STD-2041E(SH))

Analyst: Contracted LAB Accredited Laboratory 22OCT14

Lead Blankets

Contact Us



npo

As a 35+ year veteran company to the shielding industry, employees at NPO attribute a great deal of our success to the partnerships established with our customers. At NPO, we work synergistically with our customers, adapting product designs that conform to their specifications. In fact, over the last three years alone, NPO has customized 199 new product parts to meet the unique ALARA challenges our customers have faced. We would like to extend this partnership to your team as well. Please contact us today to discuss how NPO can support you.

1955 University Lane

Lisle, IL 60532

(630) 963-0320

(800) 422-6693

www.eichrom.com

