TRU-Shield® Lead-Lined Storage Containers

For on-site storage and transport of high radiation dose

2013-MAR-USA

TRU-Shield®

Further development on the Pacific Nuclear TRU-Shield® family of packages has resulted in packages that can be used for radioactive material storage and transport as well as Deep Geological disposal.

TRU-Shield® containers are uniquely designed for the storage and road, rail and air transport of Industrial Type 2 and Type A radioactive materials and provide a high degree of security. The TS-141 series has been purpose designed for disposal in the UK.

Designed in the USA, manufactured & supplied under license by Babcock [DEVA] in England in accordance with ISO 9001 and by BRM Inc. in the USA in accordance with ASME NQA-1.

Benefits At-A Glance

- DOT 7A Type A, IP3 certified container, manufactured under an ASME/NQA-1-2009 program &/or ISO 9001
- IAEA (TS-R-1), certified for Industrial Type 2 and Type A (solids)
- Containers are stackable
- Eliminates costly storage and maintenance associated with onsite storage of high surface dose rate waste
- Lower Surveillance and Maintenance cost to site
- Innovative example of multi-site recycling effort
- Use of previously surface contaminated lead can significantly reduce acquisition cost.
- Available in a variety of materials:
  - Carbon Steel
  - 300 Series SS
  - Ferallium® 255

- Does not require nitrogen purging due to fixed venting using optional vents.
- Stores material in more physically secure environment due to mass of container and lid fastening system.
- Containers can be loaded with retrievable packages (size of internal package depends on model).

TRU-Shield® TS-141-PB2 with integral pallet custom designed for DSRL-UK

[Storage Transport & Geologic disposal]

Summary

"Client Supplied Pb can be Provenance Recycled® into TRU-Shields® further reducing the Total Cost of Ownership"

TRU-Shield® SS TS-110-PB2 with integral shield lid, capable of receiving 205 litre drums.

TRU Shield® Container (Catalog ID)	*Lead-Lined Thickness*	*Empty Weight*	*[External]-[Internal] Dimensions "NOMINAL"*		Container Design Loading Capacity				
			Height	*Diameter*	*Internal Volume*	*Direct Loading*	*10-Gallon Pail*	*30-Gallon Drum*	*55-Gallon Drum*
	(in.)	(lbs.)	(in.)	(in.)	(ft3)				
TS55-PB2	2	**2330**	**34 ¼--26 7/8**	**24--18 ¼**	**4.1**	✓	✓		
TS55-PB3	3	**3108**	**34 ¼--24 7/8**	**24--16 ¼**	**3.0**	✓	✓		
TS85-PB2	2	**3137**	**39 ¼--32**	**27—21 ¾**	**7.0**	✓	✓	✓	
TS85-PB3	3	**4236**	**39 ¼--30**	**27—19 ¾**	**5.3**	✓	✓	✓	
TS110-PB2	2	**3850**	**43—35 3/8**	**31--25 ¾**	**11**	✓	✓	✓	✓
TS146-PB3	3	**6234**	**45—34 9/16**	**33--25 ¾**	**10.7**	✓	✓	✓	✓

NOTE(s):

- **Integral Pallet [IP] optional***
- **Base Configuration Material [300 Series Stainless Steel]**
- **TS-141-PB2-IP Designed for Deep Geological Disposal**

Benefits:

- IAEA TS-R-1 certified for road, air and sea for Industrial Type 2 and Type A (solids)
- Less Risk of accidental personnel exposure & less high risk radiation areas.
- Less expense to store material-no special structures required or nitrogen purging.
- Lower Surveillance and Maintenance. Built under ASME/NQA-1-2009/ISO 9001 program.
- Container costs may be offset using recycled lead–clean or previously surface contaminated.

Lifecycle Waste Reduction Pollution Prevention:

- Container can be constructed of previously surface contaminated lead. Eliminates site inventories of lead mixed waste due to lead reuse**.**

For More Information Contact:

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