

TRU-Shield® Lead-Lined Storage Containers

For on site storage and transport of high radiation dose rate material.

2011-REV0-EUR

TRU-Shield®

Pacific Nuclear & Partners came together and developed the first approved and internationally certified (IAEA TS-R-1), vented, lead-lined radioactive material storage and transport container.

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.

Designed by PNSI, manufactured by Bull Run Metal Fabricators and Engineers Inc. and lead-injected by PNSI approved subcontractors worldwide.

Benefits At-A Glance

- DOT 7A Type A, IP3 certified container, manufactured under an ASME/NQA-1-2000 program.
- 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® SS TS110-PB2 with integral shield lid, capable of receiving 205 litre drums. Appropriate filter vents are installed to meet gas generation rates as required

Summary

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



TRU Shield® Container (Catalogue ID)	Lead-Lined Thickness	Weight Tare/Gross	External/Internal Dimensions		Container Design Loading Capacity				
			Height	Diameter	Internal Volume	Direct Loading	45 litres Drum	135 litres Drum	205 litres Drum
TS55-PB2	50 nom	1060/1510	870/683	610/464	123	✓	✓		
TS55-PB3	75 nom	1410/1860	870/632	610/413	90	✓	✓		
TS85-PB2	50 nom	1425/1875	997/813	686/552	196	✓	✓	✓	
TS85-PB3	75 nom	1920/2370	997/762	686/502	154	✓	✓	✓	
TS110-PB2	50 nom	1750/2200	1092/899	787/654	305	✓	✓	✓	✓
TS146-PB3	75 nom	2830/3465	1143/903	838/654	305	✓	✓	✓	✓

NOTE: Max Payload 450 Kg [TS146 - Payload 635 Kg]
 “Contact PNSI for higher load certifications”

Container construction complies with relevant requirements of IAEA TS-R-1 and statutory instruments 2001 No. 1093 (UK)

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-1-2000 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:

+1-702-940-7832

Email: jritchie@pdsgrp.com