

Name: Type B Nested Transport Packaging (NTP)



Certification

Designed to comply with IAEA regulations as a Type B(U)F Package for transportation by Road, Sea, Rail and Air.

Description

The Nested Transport Packaging consists of an Outer Impact and Thermal Protection Assembly (OITPA), that has been designed to be used in combination with one or more sizes of Inner Containment Vessels (ICV'S), to provide varying shield thickness. The versatility of the package combinations means that a wide variety of contents can be carried with shielding to suit, ensuring the most cost effective solutions to the customer. The ICV'S can be used in their own right as a Type A transport packaging, please review the DN3726 Technical Data Sheet for more information.

Permitted Contents

Solid radioactive material or waste, such as post irradiated experiment (PIE) samples and other alpha, beta and gamma emitting nuclides. The maximum payload allowed for any of the configurations is 25kg. The Certificate of Approval can be modified under certain circumstances to meet customer's specific needs, not currently within the constraints of the permitted contents. A variant which is capable of carrying high activity neutron sources is also available.

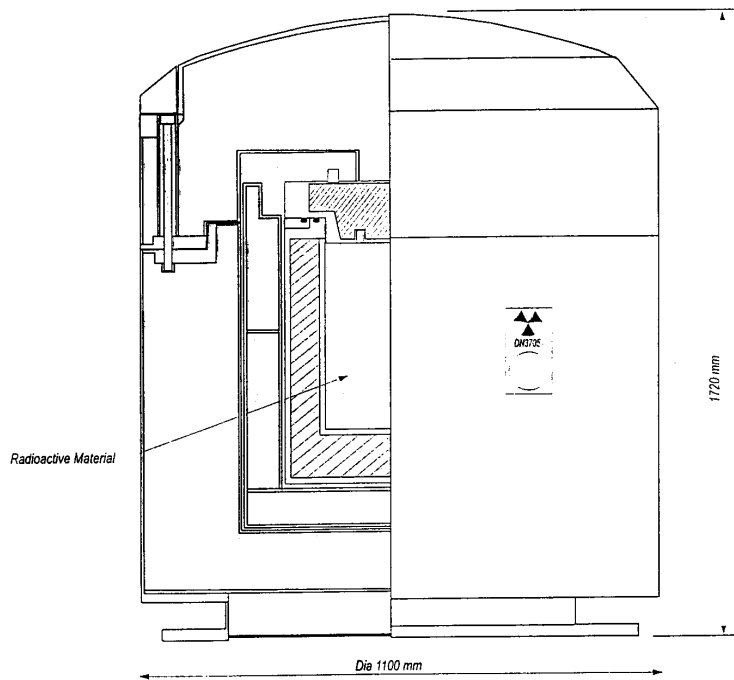
Examples of Use

Transport of highly active special form sources.

Transport of irradiated fuel samples.

Transport of samples of vitrified waste.

Packaging Specifications



Ancillary Equipment

The package is transported on a tie-down plate and has its own dedicated lifting beam.

Container Fleet

Waste Management Technology has three Outer packaging (DN3705) in their fleet of Transport Packaging.

Figure 1. Schematic

Packaging Ident	Dimensions (mm)		Cavity Maximum Size		Weight of package (Loaded tonnes)	Payload weight (kg)
	(H) mm	Dia Ø mm	(H) mm	Dia Ø mm		
DN3705A	1720	1100	730	380	2.77	Restricted through contents
DN3705B	1720	1100	515	235	2.08	
DN3705C	1720	1100	280	100	1.61	
DN3705D	1720	1100	515	235	3.50	
DN3705E	1720	1100	280	100	2.31	
DN3705F	1720	1100	280	100	3.73	

Figure 2. Packaging Specifications

Certificate of Approval (CoA's), Operating Handling Instruction (OHI's) and further information can be obtained from:

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