

Package Design No 3970A

Package Name: Safdrum



Type

Designed as a reusable Type A package to the IAEA Regulations for the Safe Transport of Radioactive Material, No TS-R-1.

Certification

Licensed by Croft Associates Limited as a general-purpose Type A package for solids and liquids.

Description

Package Design No 3970A is designed on traditional engineering principles and manufactured from stainless steel to give a long service life. The package consists of an outer container Drum Design No 3970, which carries a resealable inner Containment Can Design No 3971 within shock absorbing packing.

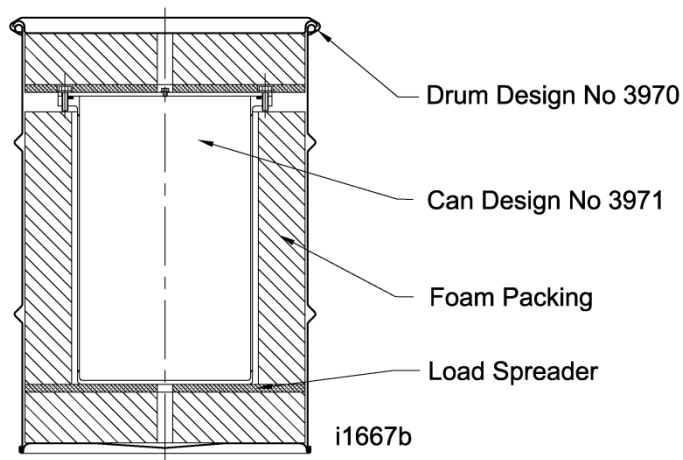
The outer container Drum, Design No. 3970, has a fabricated stainless steel body and pressed steel lid held in place with a painted steel closing band.

The Containment Can, Design No 3971 is a resealable stainless-steel containment can, which carries the radioactive contents in suitable primary containers. When contents are liquids, (within syringes, etc,) absorbent material, which is to be provided, must be fitted inside the can. When the contents are bottles or vials, these may be packed in plastic bags/containers, or carried in lead pots when additional shielding is required.

Containment

The containment system consists of the containment can Design No 3971. When liquids are carried, they are to be immobilised within the containment system using absorber or primary containment. A wide range of primary packaging (including lead pots used with bottles or vials) can be used, provided the packaging conforms to the specification referenced in the approval certificate.

Section through Package Design No 3970A



Approved Contents

Radioactive material, in liquid or solid form. A variety of sealed primary containers can be used with liquid contents (e.g. vials). Absorbent material must be used with primary containers that are not sealed (e.g. syringes).

Liquid contents are limited to a maximum volume of 20 litres when packed in suitable sealed primary containers.

Maximum contents weight of Can Design No. 3971, including additional shielding, is 30kg.

The contents are also limited to A₁ for material in special form and A₂ for other material, with the additional requirement that the external radiation levels of the package, as loaded and presented for transport, are within regulatory limits.

Modes of Transport

Road, rail, sea, air and inland waterway.

Physical Data

Package 3970A	Outer Container 3970	Packing	Inner Container 3971
External Diameter	520 mm		351 mm
External Height	711 mm		493 mm
Internal Diameter	463 mm		299 mm
Internal Height	666 mm		463 mm
Tare Weight	15 kg	10 kg	24 kg
Weight of empty Packaging Design No 3970A – 49 kg + contents 30kg = 79kg			

Further Information

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