SAFKEG® 2816

Package Type
Designed as a Type B(U)F Package to the IAEA SSR-6 2018 Regulations for the Safe Transport of Radioactive Material.

Certification
A number of approvals for the SAFKEG® 2816 have been issued as a Type B(U)F package by the UK Competent Authority and several validated by overseas regulatory bodies.

Description
The SAFKEG® 2816 is a large cavity (Ø157 x 645 mm) design within our SAFKEG® range. It has been designed for the transport of solid radioactive materials, but it could also be certified to carry liquids.

The SAFKEG® 2816 consists of an Outer Keg (Design No 2816) which carries a Containment Vessel (CV) Design No 2851, within a thermally insulating and shock absorbing cork packing set.

The Outer Keg consists of a fabricated stainless steel outer body with a large stainless-steel lined cavity and a bolted stainless-steel lid enclosure. The space provided between the fabricated body and the lined cavity is filled with a phenolic resin foam – Thermally Insulating Shock Absorbing Foam (TISAF).

The 2851 CV is manufactured from stainless steel incorporating a closure fitted with double O–ring seals.

Containment / Shielding
The 2851 CV provides the containment system of the package. This incorporates a verifiable double O-ring seal configuration which is closed using a screw retaining ring system to clamp the CV lid and compress elastomeric seals. The interspace between the inner and outer seal facilitates leakage testing to ensure that the seals achieve the prescribed levels of leak tightness.

The package does not include any specific shielding beyond its steel construction. However additional shielding, in the form of lead/ tungsten liners, can be designed to be located within the 2851 CV if required (within the allowable contents mass limit).

To reduce the possibility of contaminating the resealable CV, primary containers such as screw top cans or sealed capsules are normally used to carry the contents.

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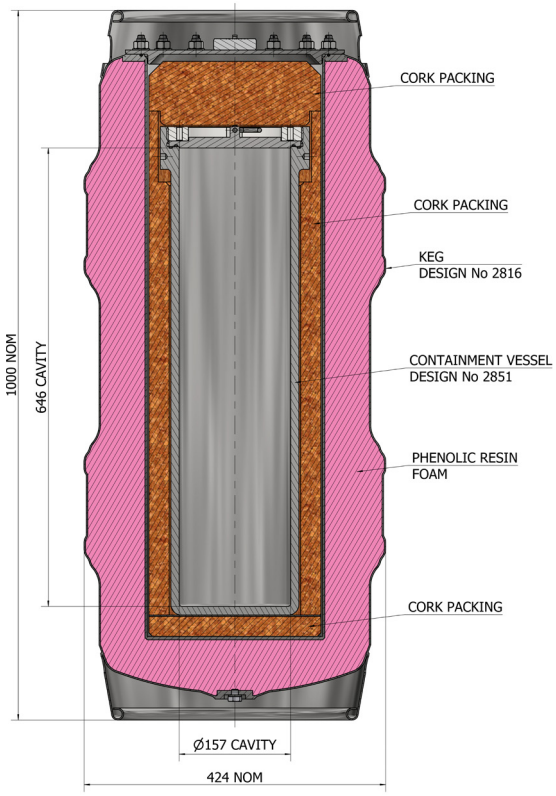
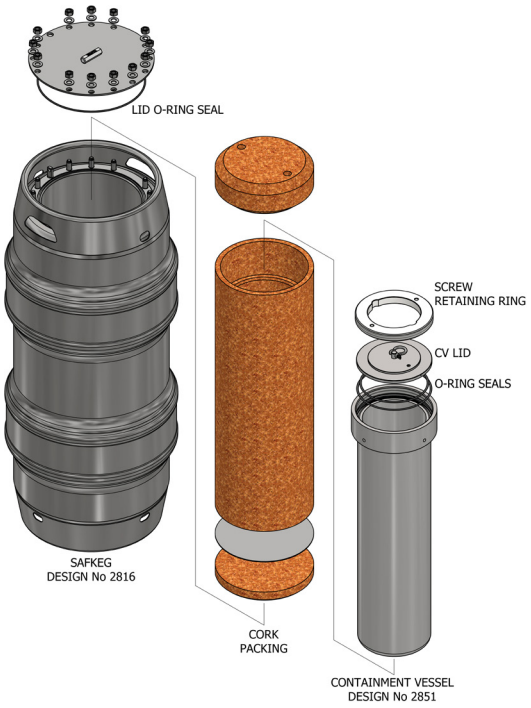
Section through Package Design No 2816





Approved Contents

- Specifically intended to transport:
  - Solid Uranium and/or Plutonium metal, compounds and/or mixtures and Americium.
  - Maximum activity will depend on the nature of the contents.
  - Maximum heat emission of contents not to exceed 70 watts and maximum contents weight 25 kg including packing within the CV.
- Other contents could be approved if required

Modes of Transport

By road, rail, sea and air.

Physical Data

Component	Outer Keg Design No 2816	Containment Vessel Design No 2851
Dimensions		
External Diameter (mm)	425	210
External Height (mm)	1000	688
Internal Diameter (mm)	247	157
Internal Height (mm)	821	645
Weights		
Tare Weight (kg)	67	44
Maximum Permitted Contents Weight (kg)	43.8	
Maximum Gross Weight of Package (including Contents) (kg)	154.8	