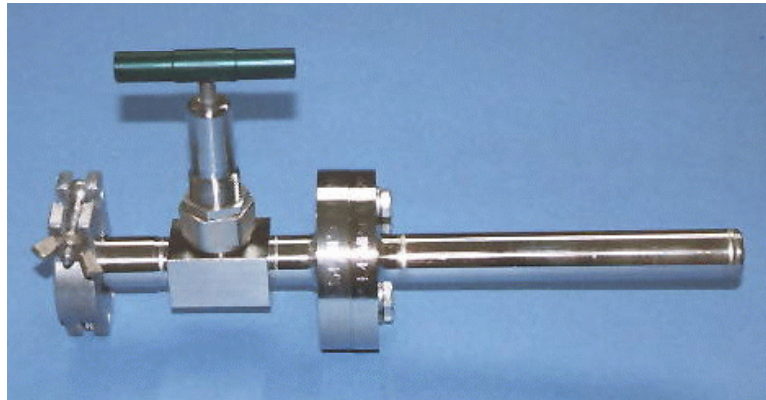


## Package Design N° 2927A

### Package Name: UF<sub>6</sub> Sample Package



### Type

The Package Design No 2927A is designed as a Type A package for the transport of UF<sub>6</sub> in sample bottles, in accordance with the IAEA Regulations for the Safe Transport of Radioactive Material, TS-R-1.

### Certification

Licensed by Croft as meeting the Type A requirements of the IAEA transport regulations and also all the regulatory requirements for UF<sub>6</sub> packages. The 2927A package and the 2926 sample bottles have been designed within an envelope that encompasses the safety requirements of the IAEA TECDOC 608, ADR, RID, ICAO, IATA and 49CFR regulations, the ISO 7195 and ANSI N14.1 standards, and the ASME B&PV code.

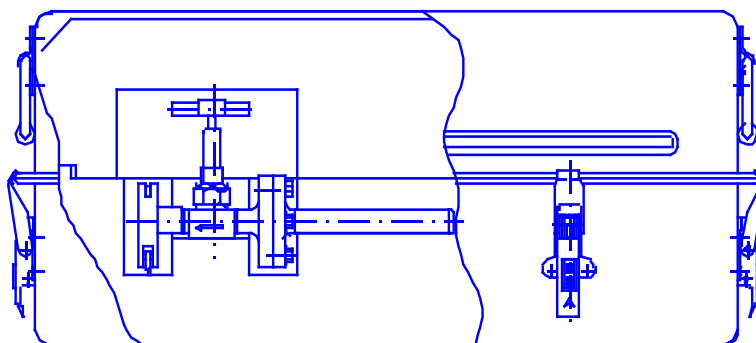
### Description

The Package Design No 2927A consists of a stainless steel Case Design No 2927, which carries five UF<sub>6</sub> sample bottles Design No 2926 (2926 bottle) within cork packing. The cork provides mechanical under normal conditions of transport and thermal protection under the IAEA Type B thermal test. The 2926 bottle is designed so that the product tube (being that part of the bottle that carries the UF<sub>6</sub>) can be disconnected from the valve at a flange. The product tube has a plain cylindrical cavity providing a wide aperture which ensures that there are no traps for residual material: this facilitates thorough cleaning to ensure that there will be no contamination of samples.

### Containment

The sample containers are pressure tested, leak tested and approved in accordance with an envelope of requirements that encompasses the safety requirements of the IAEA TECDOC 608, ADR, RID, ICAO, IATA and 49CFR regulations, and the ISO 7195 and ANSI N14.1 standards. Leakage tests are carried out with a test pass level of  $1 \times 10^{-3}$  bar cc/s SLR (0.1 Pa L/s).

## Package 2927A with Sample Bottle Design No 2926



### Approved Contents

Package limit is 450g UF<sub>6</sub> with up to 90g UF<sub>6</sub> in each sample bottle, with a package limit of 15 g fissile material.

### Physical Data

	Outer Container 2727		Sample Bottles 2926	
External Dimensions	Width	566 mm	Flange Ø	70 mm
	Depth	362 mm	Tube Ø	19 mm
	Height	256 mm	O/A length	260 mm
Internal Dimensions			Tube Ø	15.75 mm
			Tube length	148.35 mm
Cavity volume				29 cc
Weight		11 kg	Each	1.175 kg
			For 5 bottles	5.875 kg
Cork packing weight		11 kg		
Total Packaging Weight		28 kg		
Contents weight			For 5 bottles	0.45 kg
Total Package Weight				28.5 kg

### Further Information

Contact: Croft Associates Ltd, F4 Culham Science Centre, Abingdon, Oxon, OX14 3DB, UK  
Tel: (01865) 407740 Fax: (01865) 407449 E-mail: [info@croftltd.com](mailto:info@croftltd.com)  
Web site: [www.croftltd.com](http://www.croftltd.com)