SAINT-GOBAIN

KryoSure® and KryoVue® Cryopreservation Products

Distributor for Saint-Gobain FEP bags in Europe

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Non-reactive fluorinated ethylene propylene (FEP) bags providing safe use, storage and transport for immunologic and biologic applications

301-990-1407 / 800-360-1050

Safe Storage and Transport of Valuable Biologics

Saint-Gobain offers a complete line of FEP cryopreservation bags and overwraps designed to safely freeze and protect your biologics at temperatures as low as -200°C.

KryoSure® Cryopreservation Bags

KryoSure® Cryopreservation Bags are made of fluorinated ethylene propylene (FEP). Tough, transparent and flexible at extreme temperatures (working range of -200°C to +200°C), FEP is the only Class VI material known to remain flexible in liquid nitrogen, making it ideal for cryopreservation applications. KryoSure bags provide a non-reactive closed system with no materials that can adversely affect cell cultures. KryoSure bags are designed with rounded inside corners to reduce the risk of sharp ice points that can damage the bag.

KryoSure® Cryopreservation Bag with an integral label pocket

Protected sampling and exit ports

6ml Vaccine Freezing Bag with septum

General Bag Features

> Non-reactive with virtually all chemicals and biologicals, including DMSO and DMF

> Remains flexible in liquid nitrogen

> Hydrophobic nature offers enhanced retrieval of contents

> Rounded corners provide for cold strength durability during and maximal product retrieval after cryopreservation

> Large label pocket allows easy readability of content information

> ISO-compliant spike port with septum protected by an integral tear-open, tamper-evident cover

> Each bag is individually tested and inspected

> Steam sterilized: Sterility Assurance Level (SAL) 10^{-6}

> FDA 510(k) cleared; inquire regarding Device Master File

> Custom sizes and port configurations available

FEP Bag Material

> 5 mil (.005") fluorinated ethylene propylene (FEP) film

> USP Class VI compliant

> Hydrophobic nature of FEP offers enhanced retrieval of contents

> Film and ports are animal-derived component free (ADCF)

> Optically clear; transmits UV, visible and IR light

> Non-immunogenic; FEP material has no extractables, compliant with USP <661>

KryoSure® Blood Component Freezing Bags

KryoSure® Blood Component Freezing Bags are made from the highest quality USP Class VI materials. The design and materials permit the bag to remain flexible in liquid nitrogen, greatly enhancing reliability during short- or long-term cryopreservation.

Features

> Unique number engraved into the label pocket and etched into the fill tube in three places provides unalterable segments for cross-identification

> Each segment contains approximately 0.15 ml

> Segments may be stored in the large, integrally attached label pocket

> Two sterile covered spike ports and a PVC fill tube for sterile docking

> ISBT 128 compliant label pocket and bag remain transparent while frozen

Applications

> Designed for normal to extreme cryopreservation temperatures

> Contains and protects liquids and suspensions in mechanical freezers, vapor phase freezers and liquid nitrogen environments

> Fits in most standard metal freezer cassettes

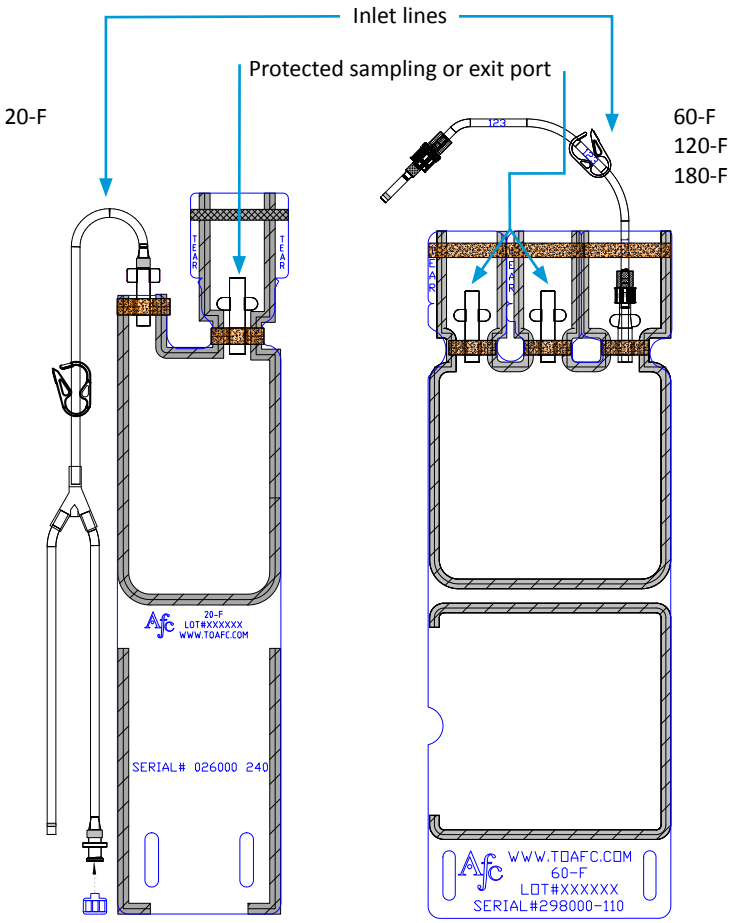
> May be used for cell culture or centrifugation with proper handling

Inlet Line

Standard system consists of 4 mm PVC (standard I.V.) tubing with a clamp. Custom systems readily available with C-Flex® or other tubing combinations upon request. Sterile docking to the inlet line permits sterile filling of the bag. Another option is to fill through the female Luer connector. The inlet line and fittings can be removed prior to cryopreservation.

Exit Port

Manufactured from FEP, the exit spike port is ISO compliant and features a septum protected from external contamination by an integral tear-open, tamper-evident cover.



KryoSure® Blood Component Freezing Bag Properties

Capacity	6 ml	50 ml	200 ml	480 ml	625 ml
Catalog Number	6-F	20-F	60-F	120-F	180-F
Volume Range	0.1-6 ml	5-20 ml	40–60 ml	50–120 ml	100–180 ml
Freeze Volume (at 1 cm thick)	6 ml	20 ml	60 ml	120 ml	180 ml
Inside Surface Area (2 sides)	40 cm^2	144 cm^2	255 cm^2	362 cm^2	445 cm^2
Outside Dimensions	16 cm x 5.1 cm	33 cm x 7.6 cm	36.2 cm x 12.7 cm	40.6 cm x 12.7 cm	43.7 cm x 12.7 cm
Length with Label Folded	NA	21.4 cm	24.3 cm	28.7 cm	31.8 cm
Label Pocket Size	NA	11.9 cm x 7.6 cm	11.4 cm x 12.7 cm	11.4 cm x 12.7 cm	11.4 cm x 12.7 cm

Note: All dmensions and volumes are +/- 8% except as noted

KryoSure® Vaccine Freezing Bag

The unique design of the KryoSure® Vaccine Freezing Bag allows for closed system sterile transfer and aseptic recovery of sterile contents such as cellular vaccines, donor lymphocyte infusions (DLI) and other small volume, clinical and industrial applications and other small volume, clinical, biotech and biopharm applications.

Features

> Bag is emptied by needle access through a conventional septum after removing the tamper-evident, liquid nitrogen-proof cover

> Heat-sealable bag neck isolates and encapsulates contents in fully closed and sealed bag

> High-temperature bar sealer required for sealing and removing the inlet port; two options available

> Label attachment hole for tying label to bag

> A wide range of ports, port protection and label packets available

> Other custom sizes available

Applications

> Freeze, thaw and dispense individual doses created from a common reservoir, sterile transferred by use of TS 917 sterile transfer set (sold separately)

> Contains and protects liquids and suspensions in mechanical freezers, vapor phase or liquid nitrogen environments

> Multiple bags will fit in most standard metal freezer cassettes

> May be used for cell culture or centrifugation with proper handling

Inlet Line

The inlet line consists of 4 mm PVC tubing for sterile connection. The fill tube and the tube connector can be completely removed by sealing and severing the neck of the bag.

Exit Port

Manufactured from USP Class VI latex-free polyisoprene, the needle access septum is protected from external contamination by an integral tear-open, tamper-evident cover.

KryoSure® Vaccine Freezing Bag Properties

Capacity	6 ml
Catalog Number	6-F
Usage Range	0.1–6 ml
Freeze Volume (at 1 cm thick)	6 ml
Inside Surface Area (2 sides)	40 cm^2
Outside Dimensions (fill port removed, ready to freeze)	16.0 cm x 5.1 cm
Label Attachment Hole	0.25 cm

Note: All dimensions and volumes are +/- 8% except as noted

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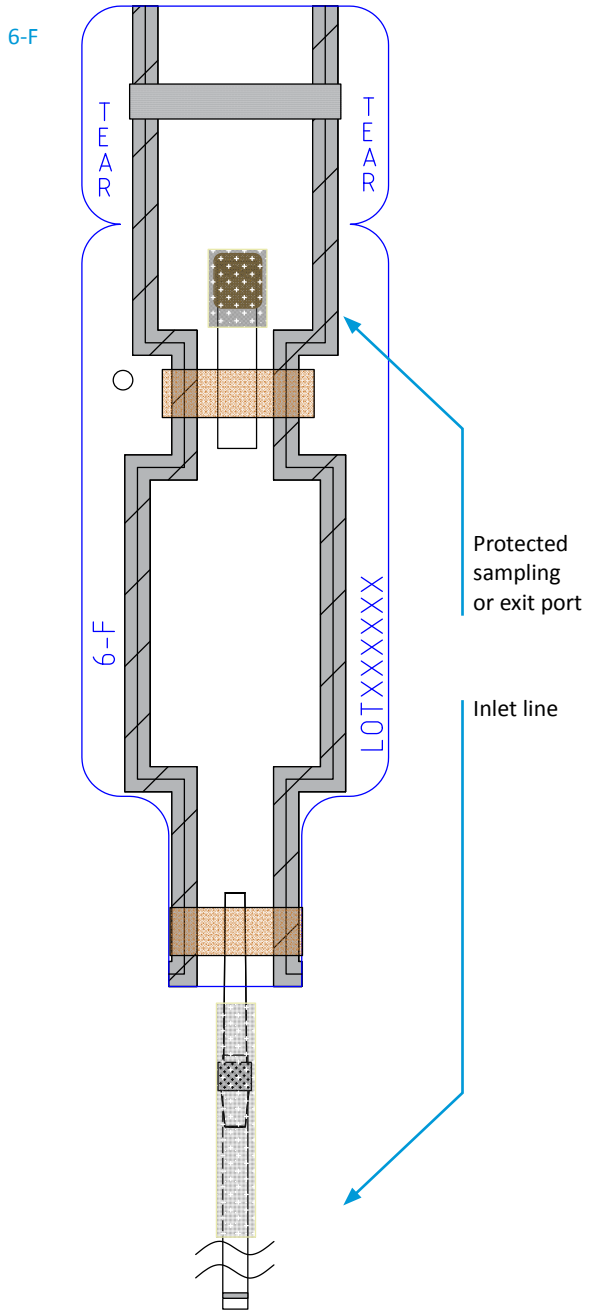
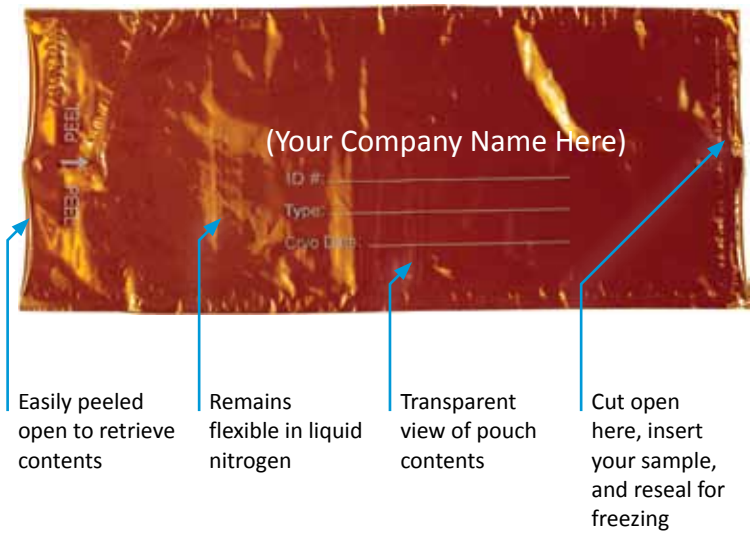
KryoVue® Peel Pouch

The KryoVue® Peel Pouch is a cryopreservation overwrap designed to protect valuable samples that are stored in liquid nitrogen. Simply peel open the package to retrieve contents.



Features

- 2 mil thick Kapton® film with FEP inside and polyimide outside
- Outside dimension: 12.6 cm x 30.4 cm
  Inside dimension: 11.6 cm x 26.3 cm
- Transparent, with a light amber tint
- Provides a barrier to liquid nitrogen and contaminants
- Remains flexible in liquid nitrogen
- Working useful temperature range from -200°C to +200°C
- Optional port for vacuum sealing
- Non-immunogenic; FEP material has no extractables, compliant with USP <661>
- Manufactured without adhesives
- Can be pre-printed with your company information and written on for documentation



For more than four decades, Saint-Gobain and its family of companies have supplied the world with innovative, high-performance polymer products for the most demanding applications. Our tradition of excellence goes back almost 350 years through our parent company, Compagnie de Saint-Gobain, one of the world's top 100 industrial corporations, with operations in 64 countries. This successful corporation has been built with the single purpose of serving the customer and a commitment to quality and leadership in each of the industries served.

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Contact us for customized solutions, further information and to place an order

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FLS-A-1M-0114-SGCS