

Welcome to Helapet

We would like to welcome you to our 2022/23 edition of the Helapet Product Catalogue. The previous two years since our last edition have seen numerous changes within the marketplace, many of which have and continue to be influenced by the global pandemic including both pricing and supply challenges as well as seeing many of you, our loyal customers, much less frequently face to face. However, we continue to be available to discuss your supply requirements be that in person, via telephone or one of the many video conferencing platforms we have all become so accustomed to of late.

Within our organisation 2021 saw Helapet achieve Investors in People Gold, something we are very proud of. That said, aligned to our culture of continuous improvement, we already have our sights set on achieving the Platinum standard in 2023. Core to this achievement has been our allegiance to our Vision, Missions and Values in our work www.helapet.co.uk/vision-mission-values

We have all seen in our private as well as our business lives evidence of increasing costs. Whilst Helapet are not immune to this, we will continue to offer genuine value for money for our products and services. Please talk to us when you are able to commit to specific product volumes or timeframes for purchase. This could allow us to improve our pricing; your commitment will be matched by our own.

About Us

Established in 1984, Helapet is one of the leading UK suppliers of medical and cleanroom consumables and inline disc filtration devices. Our safety consumables are designed to protect operators and equipment from the risk of contamination, supporting critical environment activities in aseptic production, pharmaceutical manufacture and scientific research.

Dedicated to our vision as the "partner of choice in creating a safe and clean environment", we are proud to be a trusted supplier to the National Health Service (NHS) and cleanroom technology organisations across the globe. In 2002 we became a member of the prestigious CliniMed® Group of companies, committed to serving healthcare markets under high standards of ethical and professional practice.

Helapet takes pride in putting our customers at the core of everything we do and invests in developing and maintaining long term client relationships. Our experienced account management team provide on-site training, support and guidance to help clients identify the most cost effective and reliable solutions for their individual needs.

In-house administration and technical staff deliver a comprehensive back-up service to help resolve all types of customer enquiries in a timely and professional manner.

Our unwavering customer commitment inspires our continuous improvement strategy, evaluating feedback and integrating best practices into our daily activities. Helapet staff utilise lean methodologies to consistently review our production quality control systems and supply chain to meet customer expectations, reduce lead times and deliver best value for money. An accredited ISO 13485:2016 company, Helapet are also proud holders of Investors in People (Gold) accreditation, recognising the value we place on people development.

On behalf of the Helapet team, we thank you for the interest you have shown in our catalogue and our business. We invite you to contact us and let us help you discover more about how our products and services can be of benefit to you.

We thank our Assistant Management Accountant, of the Helapet Product Catalogue

11 Throughout the pandemic we have been highly impressed by the continuity of customer service, advice and supply received from Helapet

NHS Aseptic Unit Manager

How to use our catalogue



Product Code

Short Description or Other Information

Unit of Sale

3 Size or Volume

4 Sterility

Information can vary depending on product type. Further product information can be downloaded at helapet.co.uk





Improve efficiency

Save money

We offer commitment discounts on selected product ranges. Talk to us about the products you need, your annual usage requirements, when and where you need them and we will do the rest.

Not only will it save you money, but it takes away the time-consuming hassle of repeat ordering.

Call us today on 01582 501980

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Cleaning and Disinfection





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SteriClean® FloWrap Wipes

SteriClean® FloWrap Alcohol Wipes are the perfect solution for general purpose cleaning in a cleanroom environment. Incorporates strong, low linting wipes impregnated with SteriClean® high performance 70% IPA or IMS alcohol solution blended with Water for Injection (WFI). Resealable bag packaging and two convenient pack size options make SteriClean® FloWrap Wipes an excellent alternative to tub wipes.

- Absorbent polyester/cellulose blend
- IMS or BPR* compliant isopropyl alcohol (IPA)
- Excellent durability, wickability and cleanliness
- Resealable poly-pouch to prevent drying out
- "Z" folded for individual dispensing
- Double poly-bagged for ease of transfer





10 Wipe



IPA FloWrap

100 wipes sterile • 8 x 100 pcs/pck

IMS FloWrap

100 wipes sterile • 8 x 100 pcs/pck

IPA FloWrap

10 wipes sterile • 25 x 10 pcs/pck

IMS FloWrap

XX6251 10 wipes sterile • 25 x 10 pcs/pck

Wipe Specification

Wipe Size (unfolded)	23 x 23cm
Wipe Material	45% polyester/ 55% cellulose
Colour	White
Thickness	68 gsm
Absorbency	400%
Particle >0.5 μm / m² (x10°)	≤ 878

†EU Biocidal Products Regulation



Cleaning and Disinfection

SteriClean® Sterile Sachet Wipes



SteriClean® Dry Wipes



SteriClean® Individual IPA Wipes

Single sterile sachet wipe impregnated with high performance 70% IPA, ideal for precise cleaning and disinfection of devices, products and surfaces

- Durable 68 gsm wipe
- Low linting polyester / cellulose blend
- Ideal for economy cleaning and disposal
- Tear notch for easy opening
- Available in two convenient wipe sizes



XXTB6725

triple bagged

19 x 19cm • sterile • 10 x 25 pcs/pck

10 x 15cm • sterile • 5 x 100 pcs/pck

SteriClean® IPA Prep Pad

Small, economic and perfect for cleaning and disinfection of small surface areas. Helapet IPA Prep Pads increase efficiency with less waste, optimising space in confined environments such as cabinets and isolators.

- Ideal for disinfection of syringes, vial tops and bag ports
- Absorbent rayon/ polypropylene blend
- Individually pre-folded in paper-free packaging
- Reduced clinical waste

3.2 x 6.7cm • sterile • 20 x 200 pcs/pck

triple bagged

3.2 x 6.7cm • sterile • 20 x 200 pcs/pck



SteriClean® Dry Wipes

SteriClean® Dry Wipes are manufactured from high performance polyester/cellulose bonded fibres. Packed in alcohol resistant packaging and irradiated to not less than 25 kGy makes them an ideal choice for any ISO grade cleanrooms. Supplied ready folded in several packaging configurations, ranging from individually packaged to economic multi-packs.

- Durable 68gsm polyester / cellulose blend
- Low linting with low extractables
- Cleanroom processed

- · Packed in alcohol resistant paper-free packaging
- Sterile and non sterile presentations

WN6712



Standard Dry Wipes

Single wipe

23 x 23cm • sterile • 300 x 1pc/pck

5 pack 23 x 23cm • sterile • 60 x 5 pcs/pck

XX6710

10 pack 23 x 23cm • sterile • 30 x 10 pcs/pck

300 bulk pack

23 x 23cm • sterile • 3 x 300 pcs/pck

XL Dry Wipes XX6712

XL 5 pack

30 x 30cm • sterile • 60 x 5 pcs/pck

XX6769 XL 50 pack

30 x 30cm • sterile • 10 x 50 pcs/pck

Non Sterile Dry Wipes

23 x 23cm • non sterile • 300 pcs/pck

30 x 30cm • non sterile • 150 pcs/pck

SteriClean® Laser Sealed Polywipe

Durable cleanroom wipe with special laser sealed edges to reduce the risk of linting.

- Chemically compatible with IPA, acetone and other solvents
- Critically low particles, fibres and extractables
- · Lightweight and absorbent

23 x 23cm • non sterile • 150 pcs/pck

Try before you buy!

Order free trial samples of most of our products online or contact us direct

SteriClean® Trigger Sprays

SteriClean® Trigger Sprays

SteriClean® Alcohol Sprays High performance general purpose disinfectant for critically controlled environments. Ready to use straight from the dispenser, the closed spray assembly safeguards the continued sterility of the contents.

- High performance 70/30 isopropyl alcohol (IPA) or denatured ethanol (DE)
- 0.2 micron filtered and blended with Water For Injection (WFI)
- Closed bag in bottle system maintains sterility of contents for up to 3 months
- Easy to handle, ergonomic bottle design
- Long length, non-venting trigger
- Compact 0.9L or 0.45L sizes
- Individually double or triple bagged for smooth cleanroom transfer

0.9L Bottles

XX6800

BPR[†] compliant IPA Spray (bag in bottle) 0.9L • sterile • 6 bottles/pck

DE Spray (bag in bottle) 0.9L • sterile • 6 bottles/pck

XXTB6900 DE Spray (bag in bottle)

triple bagged 0.9L • sterile • 6 bottles/pck

XX6901 DE Spray (no bag in bottle) 0.9L • sterile • 6 bottles/pck

BPR† compliant IPA Spray (no bag in bottle) 0.9L • non sterile • 6 bottles/pck

*minimum order quantity of 60 packs

†EU Biocidal Products Regulation

0.45L Bottles

DE Spray (bag in bottle) 0.45L • sterile • 12 bottles/pck





SteriClean® Neutral Detergent Spray

Cleaning and Disinfection

SteriClean® Neutral Detergent is an excellent general purpose cleaning agent for controlled cleanroom environments. A ready mixed pH neutral solution blended with de-ionized water, highly effective at removing soiling without the risk of damaging sensitive surfaces.

- Safe for use in acid/alkaline sensitive areas
- Effective at removing soiling prior to disinfection
- Non-ionic for cleaning of oily residues
- Closed system maintains sterility of contents
- Lightweight, ergonomic bottle design
- Individually double bagged for smooth cleanroom transfer

0.9L • sterile • 6 bottles/pck

Coventry™ Utility Sealed Foam Swab

Manufactured from reticulated 100 pores per inch (ppi) medical grade foam for excellent particulate entrapment, with a fibreless construction that results in no loose fibres or particles.

- Cost-effective swab for cleaning and sampling
- · High solvent holding capacity
- Free of adhesives or binders that could contaminate your process
- Fibreless construction does not generate particles

SF4105

non sterile • 500 pcs/pck

Coventry™ Wrapped Polyester Pillow Tip Swab

Consisting of a polyester knit fabric which provides low non-volatile residue, ionic and particulate contamination. Exceptional strength and solvent resistance makes this durable swab ideal for critical testing applications in pharmaceutical and biotechnical industries.

- Adhesive-free swab, durable head construction
- Excellent solvent compatibility and retention
- Glass filled nylon handles suitable for cleanrooms
- Lint free

SF2112

non sterile • 25 pcs/pck





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Berner Cytotoxic Latex Glove

Berner Cytotoxic Latex Gloves stand out due to their exceptional elasticity, high wearable comfort and protective properties against cytotoxics, chemicals and biological agents. Double dipped for extra strength delivers exceptional protection without the need for double gloving.

- Purpose designed for handling cytotoxics
- Over 8 hours of chemical permeation resistance*
- Fully textured for good grip of products
- Ready folded in non-particulating polypackaging
- 300mm beaded cuff for secure protection above the wrist

 Permeation tested with numerous chemicals in accordance with EN374-3 and EN16523-1



GL3010 6.5 (S) • sterile • 20 x 10 pairs/pck

7 (SM) • sterile • 20 x 10 pairs/pck

8.5 (L) • sterile • 20 x 10 pairs/pck 7.5 (M) • sterile • 20 x 10 pairs/pck 9 (XL) • sterile • 20 x 10 pairs/pck

① Pack size expected to change in 2022. Contact us to learn more. *full permeation data available on request

BioClean[™] Advance Cleanroom Glove

Hand-specific latex gloves that offer excellent tactility and wearer comfort. Suitable for use in clinical areas, laboratories and cleanroom environments.

- Anatomically shaped and designed to be double-donnable
- Textured surface for good grip
- Beaded cuff for stable fit on the arm
- Compatible up to ISO Class 4 & EU GMP Grade A



GL5065

Size 6.5 • sterile • 50 pairs/pck

Size 7 • sterile • 50 pairs/pck

GL5075 Size 7.5 • sterile • 50 pairs/pck

GL5080

Size 8 • sterile • 50 pairs/pck

GL5085

Size 8.5 • sterile • 50 pairs/pck

Sempermed® Supreme Surgical Glove

These gloves are anatomically designed to reduce hand fatigue and increase comfort when handling delicate instruments in controlled sterile environments.

- Micro-rough surface for precise handling
- Anatomically shaped for fit and comfort
- Synthetic lining for easy donning
- Powder free



GL1060-50

Size 6 • sterile • 50 pairs/pck

GI 1065-50

Size 6.5 • sterile • 50 pairs/pck

GL1070-50

Size 7 • sterile • 50 pairs/pck

GL1075-50

Size 7.5 • sterile • 50 pairs/pck

GL1080-50

Size 8 • sterile • 50 pairs/pck

GL1085-50

Size 8.5 • sterile • 50 pairs/pck

Size 9 • sterile • 50 pairs/pck

Try before you buy!

8 (ML) • sterile • 20 x 10 pairs/pck

Nitrile Gloves

Non-Latex Gloves







Berner Cytotoxic Neoprene Glove

Made from high quality polychloroprene, Berner Neoprene Gloves offer excellent protection against cytotoxics, chemicals and biological agents. Owing to the material composition, these gloves are particularly suitable for people suffering from latex allergies.

- Purpose designed for handling cytotoxics
- Over 8 hours of chemical permeation resistance*
- Ready folded long cuff to avoid contamination
- 300mm beaded cuff for secure protection above the wrist
- Permeation tested with numerous chemicals in accordance with EN374-3 and EN16523-1

GP3065100

6.5 (S) • sterile • 10 x 10 pairs/pck 7 (SM) • sterile • 10 x 10 pairs/pck

7.5 (M) • sterile • 10 x 10 pairs/pck

*full permeation data available on request

GP3080100

8 (ML) • sterile • 10 x 10 pairs/pck

GP3085100

8.5 (L) • sterile • 10 x 10 pairs/pck

9 (XL) • sterile • 10 x 10 pairs/pck



Berner Cytotoxic Nitrile Glove

Manufactured from a copolymer of particular plastics, Berner Nitrile Cytotoxic Gloves guarantee an exceptionally high protective capacity against cytotoxics and biological agents.

- Over 8 hours of chemical permeation resistance*
- Optimal handling with textured finger grips
- Non-sterile version: ambidextrous, latex free presentation
- Sterile version: dedicated Right and Left glove
- Long 300mm beaded cuff for protection above the wrist
- Suitable for double gloving
- Permeation tested with numerous chemicals in accordance with EN374-3 and EN16523-1

Non sterile

GN3010

Size 6 (XS) • non sterile • 100 pcs/pck

Size 7 (S) • non sterile • 100 pcs/pck

Size 8 (M) • non sterile • 100 pcs/pck GN3025

Size 9 (L) • non sterile • 100 pcs/pck

Size 10 (XL) • non sterile • 100 pcs/pck

Sterile

GN9610100

Size 6 (XS) • sterile • 10 x 10 pairs/pck GN9615100

Size 7 (S) • sterile • 10 x 10 pairs/pck

Size 8 (M) • sterile • 10 x 10 pairs/pck

Size 9 (L) • sterile • 10 x 10 pairs/pck

Size 10 (XL) • sterile • 10 x 10 pairs/pck

*full permeation data available on request

BioClean™ Ultimate Synthetic Cleanroom Glove

BioClean™ Ultimate latex free gloves are a proprietary co-polymer blend, containing no latex proteins. Provides exceptional grip and dexterity for assured handling of both wet and dry products.

- Latex free to eliminate Type 1 allergic reactions
- Excellent anti-static properties
- Textured finish for good grip
- Hand specific shape for precise handling
- Compliant to EN374 and ASTM standards

Size 6.5 • sterile • 50 pairs/pck

Size 7 • sterile • 50 pairs/pck

Size 7.5 • sterile • 50 pairs/pck

Size 8 • sterile • 50 pairs/pck

Size 8.5 • sterile • 50 pairs/pck

GS1090

Size 9 • sterile • 50 pairs/pck



BioClean™ Emerald Underglove

Manufactured from highly resistant nitrile material, the BioClean™ Emerald is an exceptional underglove, adding safer protection when worn with other cleanroom gloves.

- Double donnable
- Compatible up to ISO Class 4 & EU GMP Grade A
- Latex free and hypoallergenic
- Chemically resistant to EN374 and ASTM standards



GU1060

Size 6 • sterile • 50 pairs/pck

GU1065 Size 6.5 • sterile • 50 pairs/pck

GU1070 Size 7 • sterile • 50 pairs/pck

Size 7.5 • sterile • 50 pairs/pck

Size 8 • sterile • 50 pairs/pck

GU1085 Size 8.5 • sterile • 50 pairs/pck GU1090

Size 9 • sterile • 50 pairs/pck

BioClean™ Synergy Glove



Helapet offer the BioClean™ Synergy ambidextrous nitrile glove as the non sterile equivalent to the BioClean™ Emerald glove. Ideal for handling hazardous chemical agents in controlled environments.

- Latex free for allergy sufferers and
- Compatible up to ISO Class 4
- Exceptional wearer comfort and grip
- Compliant to EN374 standards

Size XS • non sterile • 1,000 pcs/pck GU2065

Size S • non sterile • 1,000 pcs/pck

GU2075 Size M • non sterile • 1,000 pcs/pck

GU2085

Size L • non sterile • 1,000 pcs/pck

Size XL • non sterile • 1,000 pcs/pck

Browse our specialty range of sterile and non sterile polybags View pages 33-34



Facemasks





BioClean™ Cleanroom Tie-on Facemask

Tie-on cleanroom facemask ideal for critical cleanroom and sterile operations, offering the user a high standard of comfort with its fully enclosed nose-band.

- PFE > 97%, BFE > 96.5%*
- Tie-tapes for a secure fastening
- Low linting materials
- Ultrasonically sealed edges to reduce risk of linting



sterile • 8 x 50 pcs/pck non sterile • 8 x 50 pcs/pck

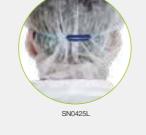
BioClean™ Clearview™ Visor Facemask

Splash resistant cleanroom visor facemask with a 3M anti-fog visor which is optically clear and distortion free.

- All-in-one face and eye protection
- PFE > 97%, BFE > 96.5%*
- Low linting materials
- Ear-loops or tie-on fastening



Ear loops with fastening clip sterile • 4 x 25 pcs/pck SN0425T Wrap around ties sterile • 4 x 25 pcs/pck



Positive Facial Lock (PFL®) Laser Facemask

Secure fitting facemask that can filter smoke plumes during laser surgery which are not filtered by regular facemasks.

- PFE ≥ 98%, BFE ≥ 98%*
- Latex free
- Easy inhalation
- Secure facial locking system



Alphamesh A-2CV (odourless) Facemask

Alphamesh A-2CV respirator facemask provides FFP2 rated protection whilst preventing pungent odour penetration.

- Reduced odours and organic vapours
- Integrated respirator for easier breathing
- Unimpeded vision
- Metal and latex free construction



Berner FFP3 Sterile Respiratory Facemask

A single-use, respirator half mask designed to provide high level FFP3 rated particle protection against solid and liquid particles in controlled work applications. Each facemask is presented individually polybagged and pre-sterilised, ideal for immediate transfer and use in cleanroom environments.

- High level PFE > 99%*
- Adjustable to fit any face shape
- Comfortable and entirely latex-free
- Pre-sterilised for cleanroom applications
- Integrated exhalation valve for easy breathing



Berner FFP3 Sterile Respiratory Facemask w/o exhalation valve

A filtering folding half-mask, offering excellent particle protection against hazardous and toxic substances. The CoolSAFE filter material delivers an effective combination of low breathing resistance and high filtration performance.

- Single-use, FFP3 rated protection
- Easily adjusted to fit any face shape
- At least 99% retaining capacity
- Low breathing resistance
- Sterilised for use in cleanroom environments



Moldex Activform (FFP3) Facemask

Durable designed facemask to significantly reduce inhalation resistance whilst maintaining the highest standard of filtration performance.

- Fully adjustable face seal
- Usable beyond 8 hours
- Effective against solid and liquid aerosols including cytotoxics
- Strong and durable structure keeps the mask in shape



Berner FFP3 BLS Zero 31 Facemask

An innovative, non sterile respiratory facemask granting high level FFP3 protection, with integrated nanoparticle filtration technology to successfully block the inhalation of nanoparticles.

- Nanoparticle filtration down to 0.001µm
- Minimal breathing resistance comparable to a FFP1 respirator mask
- Easy, reliable fit
- Soft internal layer keeping skin cool and dry
- Tested and certified to EN 149:2001+A1:2009



Try before you buy!

Headwear





Bouffant Cap

Comfortable headwear protection from particles in controlled environments.

- Non-linting, non-woven material
- Elasticated for secure, snug fit
- Disposable, comfortable and
- Worn under cleanroom hooded suit or by itself

non sterile • 10 x 100 pcs/pck



Non-woven Beard Mask

Ultimate protection for those with facial hair, with complete coverage of mouth and chin.

- Non-linting, non-woven materials
- Latex free
- Comfortable and breathable

non sterile • 20 x 10 pcs/pck



Non-woven Mob Cap

Single-use cleanroom mob caps designed specifically to prevent particles from the head or hair contaminating the cleanroom.

- Excellent protection from head and hair particles
- Non-linting materials
- Latex free construction
- Comfortable and breathable

non sterile • 10 x 100 pcs/pck

Helapet Snood Cap Lightweight headwear protection with secure hair control.

 Complete head and hair coverage Lightweight composition Elasticated at nape of neck Secure and comfortable fit



Foam Beard Mask

Comfortable foam based protection, preventing unwanted particles contaminating the cleanroom from the nose and mouth.

- Optimal comfort across the mouth
- Single use disposable
- Does not restrict breathing or



non sterile • 10 pcs/pck



Tyvek® All-in-one Suit

Suitable for full body coverage and protection in a cleanroom environment. Resistant to chemical splashes and dry particles, yet breathable and lightweight for optimal user comfort.

- Category III protective clothing
- Includes hood and overshoe protection
- Low particle shedding for use in controlled environments
- Lightweight, soft and comfortable
- · Available double bagged and sterilised for smooth cleanroom transfer





Covered zip

Overshoe protection

and waist

Non sterile

AT0110

small • non sterile • 25 pcs/pck AT0120

med • non sterile • 25 pcs/pck

large • non sterile • 25 pcs/pck

AT0140 X large • non sterile • 25 pcs/pck

XX large • non sterile • 25 pcs/pck

Sterile

double bagged

small • sterile • 10 pcs/pck

XX0120 double bagged

med • sterile • 10 pcs/pck

XX0130

double bagged

large • sterile • 10 pcs/pck

XX0140

double bagged

X large • sterile • 10 pcs/pck XX0150

double bagged

XX large • sterile • 10 pcs/pck

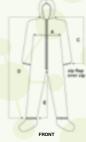
Size Chart

Dimensions in centimetres

Manage hazardous spills in complete safety with Berner Cytotoxic Spill Kits

	Size	A Chest	C Neck to Wrist	D Neck to Ankle	E Inside Leg
	s	110	83	163	80
	М	120	85	169	82
_	L	130	89	175	84
	XL	140	92	183	86
X	XXL	150	96	192	88

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16

non sterile • 100 pcs/pck



Protective Suits







Berner Cytotoxic Gown

Designed to offer safe frontal protection in the handling of cytotoxic agents*, combined with good breathability and user comfort.

- Polymer coated protection to prevent contamination
- Lightweight, lint-free material
- Secure Velcro® fastening at the neck
- Handy double sewn wrapping bands
- Individually packaged and sterile
- Permeation tested to EN16523-1:2015



AB2010

small • sterile • 10 pcs/pck

AB2020

med • sterile • 10 pcs/pck

AB2030

large • sterile • 10 pcs/pck AB2040

X large • sterile • 10 pcs/pck

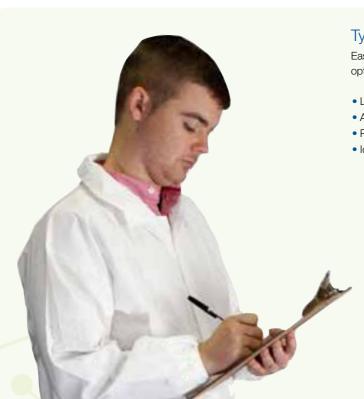
*full permeation data available on request

Size Chart

Dimensions in centimetres

Size	Chest	Neck	Sleeve Length	Body Length	Tie Distance from Hem	Size Around
S	71.1	53.3	80	104	68.6	127
М	71.1	58.4	80	114	68.6	127
L	76.2	66	83.8	114	68.6	152
XL	83.8	68.6	88.9	117	68.6	167.6





Tyvek® Lab Coat

Easy donning lab coats offering protection and comfort with optional pockets.

- Low linting Tyvek® material with zip front
- Available with or without pockets
- Protects against chemical liquid splashes
- Ideal for guests and visitors



Elasticated cuffs



Zip front closure



AT1410

small • non sterile • 2 x 25 pcs/pck

AT1420

med • non sterile • 2 x 25 pcs/pck AT1430

large • non sterile • 2 x 25 pcs/pck

AT1440 X large • non sterile • 2 x 25 pcs/pck

AT1450

XX large • non sterile • 2 x 25 pcs/pck

Two Pockets

med • non sterile • 2 x 25 pcs/pck

large • non sterile • 2 x 25 pcs/pck



Size Chart

Dimensions in centimetres

Size	A Chest	B Back Length	C Neck to Sleeve	D Zip
S	108	107	77	70
М	118	109	78	70
L	128	111	79	70
XL	138	113	80.5	70
XXL	148	115	82	70





Clear Overvision Spectacles

Designed to fit comfortably over prescription eyewear offering good all round protection and visibility. Ideal as visitor spectacles.

- Lightweight design
- Vented to prevent fogging
- Scratch-resistant
- low energy impacts
- Clear all round vision



non sterile • 10 pcs/pck

Arm Protection



Berner Oversleeves

Specifically designed for optimal arm protection whilst handling cytotoxics*.

- Liquid proof coating for enhanced permeation protection
- Lightweight, non linting material
- Knitted cuff for added comfort
- 52cm length with secure elasticated finish at the top of the arm
- Permeation tested to EN16523-1:2015

AB0001

sterile • 40 pairs/pck

AB6000

non sterile • 50 pairs/pck

*full permeation data available on request



Helapet Standard Overshoes

Manufactured from soft, microporous fabric resistant to chemical splashes and dust. Elasticated opening allows for secure fit and wearability.

- Highly resistant Cat III Type 5 and 6 material
- Robust, low linting material
- Anti Static EN1149-5: 2008
- Secure and comfortable fit



410mm (16") • non sterile • 20 x 10 pairs/pck

Safestep Non-Slip Overshoes

Robust protection against footborne contamination with slip-resistance to prevent accidental falls.

- Low linting materials
- Compatibility with ISO Class 5 environment
- Anti-slip sole for added grip
- Elastic ankle cuff to fit different types of footwear



406mm (16") • non sterile • 4 x 100 pcs/pck

Polythene Oversleeves

Economic arm protection for handling chemicals and potent solutions.

- Light and comfortable
- Low linting materials
- Available sterile for use in controlled working environments
- 40cm length with secure elasticated finish on both ends



non sterile • 2 x 50 pairs/pck XX0068 sterile • 10 x 10 pairs/pck

Tyvek® Oversleeves

Designed using proven non-linting materials and available in sterile and non sterile presentations for controlled areas and cleanroom

- Durable non-woven fabric
- 42cm length for enhanced protection from wrist to top of the arm
- Elasticated cuffs for secure fit
- Sterile wrapped in pairs



non sterile • 2 x 50 pairs/pck XX0006 sterile • 10 x 10 pairs/pck

Helapet Non-Slip Overshoes

Helapet overshoes now offer a nylon coated non-slip sole for additional grip on smooth floors and wet surfaces.

- Assured stability on smooth surfaces
- Chemical resistant Cat III Type 5 & 6 material
- Non linting and anti-static
- · Elasticated finish for secure and comfortable fit



A0702CS 410mm (16") • non sterile • 20 x 10 pairs/pck

Polyethylene Overshoes

Easily donnable and removable footwear, able to withstand liquid splashes and dry particles.

- Secured over different type of footwear
- Resistant to a wide range of chemicals
- Facilitates grip on smooth cleanroom floors
- Low linting material



360mm (14") • non sterile • 10 x 100 pcs/pck

Reduce foot and wheel-borne contamination with our cleanroom Tacky Mats



PPF

Overboots



Tyvek® Overboots

Disposable and lightweight, Tyvek® Overboots provide safe lower leg protection.

- Secure wrap around tie fastening
- Anti-slip sole for enhanced grip
- Lightweight, low linting material

AT0010

non sterile • 10 x 10 pairs/pck



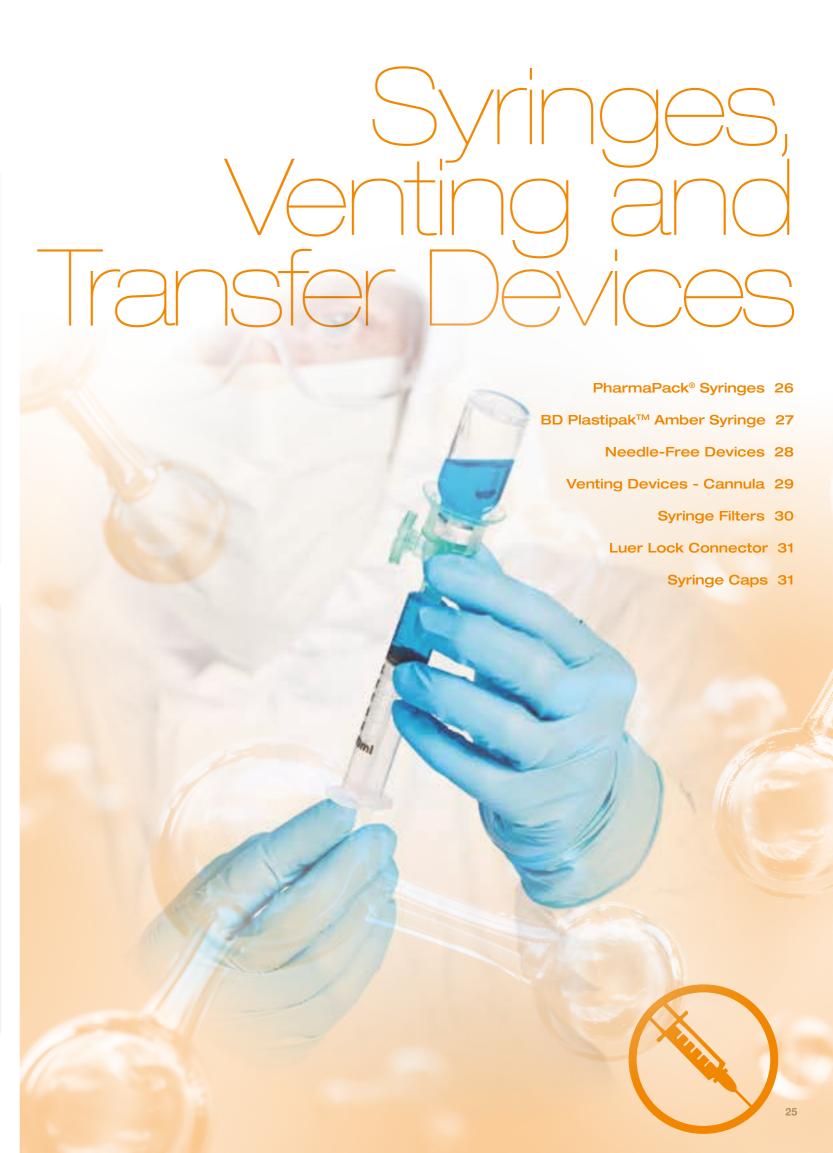
Chemsplash® Elasticated Non-Slip Overboots

Designed from low-linting, chemically resistant Type 5 and 6 material, granting a secure fit over standard footwear with a slip retardant sole for extra grip on smooth surfaces.

- Comfortable and chemically resistant
- Anti-slip, clear PVC sole preventing accidental slips
- Secure elasticated opening at the top and ankle for snug fit over standard footwear
- Anti-static and non-linting for assured use within cleanroom environments

AO2565

non sterile • 20 x 10 pairs/pck



Syringes, Venting and Transfer Devices

PharmaPack® Syringes



Pharma Pack

sterile multi-pack syringes

Helapet offer a comprehensive range of PharmaPack® sterile bulk-packed luer lock and luer slip syringes in different bag configurations, suitable for high volume aseptic manufacturing units. PharmaPack® multi-pack syringes provide a quick, efficient and cost effective solution when transferring several syringes into a cleanroom environment, saving the user precious time and expense.

- CE marked syringes
- Metric graduation
- Transparent, low lint packaging
- Suitable for Grade A environments
- Seal integrity tested
- Produced to ISO 13485:2016 standard
- Microbiologically and structurally integrity tested in accordance with NHS protocols*

to further enhance the efficient transfer and use of syringes in controlled preparation areas.

Capped

Optional capping of tips to reduce risk of contamination during removal from the packaging.

Luer Lock / Luer Slip Connection

Standard connections used for administration or mating with other medical devices and instruments

A comprehensive range of syringe sizes available include: 1ml, 3ml, 5ml, 10ml, 20ml, 30ml, 50ml

Economic pack quantities of 5, 10, 25 or 50 syringes to suit individual production runs.

Double or Triple Bagged Packaging

Select number of sterile barriers to best match the specific requirements of your transfer process. Our syringe packs use clear, alcohol impermeable packaging.





Syringes, Venting and Transfer Devices

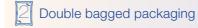
PharmaPack Syringes | Amber Syringes





PharmaPack® sterile multi-pack syringes

LUER LOCK / UNCAPPED



PharmaPack® BD syringe (LL) 1ml • sterile • 50 x 10 pcs

PharmaPack® BD syringe (LL) 3ml • sterile • 50 x 10 pcs

PharmaPack® BD syringe (LL) 3ml • sterile • 20 x 25 pcs

PharmaPack® BD syringe (LL)

3ml • sterile • 10 x 50 pcs

PharmaPack® BD syringe (LL) 5ml • sterile • 40 x 10 pcs

PharmaPack® BD syringe (LL) 5ml • sterile • 16 x 25 pcs

XX3110BD

PharmaPack® BD syringe (LL) 10ml • sterile • 35 x 10 pcs

PharmaPack® BD syringe (LL) 20ml • sterile • 10 x 10 pcs

PharmaPack® BD syringe (LL) 20ml • sterile • 4 x 25 pcs

PharmaPack® BD syringe (LL) 30ml • sterile • 10 x 10 pcs

PharmaPack® BD syringe (LL)

30ml • sterile • 4 x 25 pcs

PharmaPack® BD syringe (LL) 50ml • sterile • 5 x 10 pcs

PharmaPack® BD syringe (LL) 50ml • sterile • 2 x 25 pcs

PharmaPack® BD syringe (LL) 50ml • sterile • 5 x 25 pcs

Triple bagged packaging

PharmaPack® BD syringe (LL) 1ml • sterile • 50 x 5 pcs

XXTB3

PharmaPack® BD syringe (LL) 5ml • sterile • 50 x 5 pcs

PharmaPack® BD syringe (LL)

10ml • sterile • 40 x 5 pcs **XXTB3130B**

PharmaPack® BD syringe (LL) 30ml • sterile • 8 x 10 pcs

XXTB3150BD

PharmaPack® BD syringe (LL) 50ml • sterile • 4 x 10 pcs

Further double and triple bagged options available on request



PharmaPack® sterile multi-pack syringes LUER LOCK / CAPPED

2 Double bagged packaging

PharmaPack® BD syringe (LL) 1ml • sterile • 50 x 10 pcs

PharmaPack® BD syringe (LL) 3ml • sterile • 50 x 10 pcs

PharmaPack® BD syringe (LL) 3ml • sterile • 20 x 25 pcs

XX3105BD

PharmaPack® BD syringe (LL) 5ml • sterile • 40 x 10 pcs

PharmaPack® BD syringe (LL) 5ml • sterile • 16 x 25 pcs

PharmaPack® BD syringe (LL) 10ml • sterile • 35 x 10 pcs

XX3120B

PharmaPack® BD syringe (LL) 20ml • sterile • 10 x 10 pcs

PharmaPack® BD syringe (LL) 20ml • sterile • 4 x 25 pcs

PharmaPack® BD syringe (LL) 30ml • sterile • 10 x 10 pcs

PharmaPack® BD syringe (LL) 50ml • sterile • 5 x 10 pcs

PharmaPack® BD syringe (LL) 50ml • sterile • 2 x 25 pcs

Triple bagged packaging

PharmaPack® BD syringe (LL) 5ml • sterile • 50 x 5 pcs

PharmaPack® BD syringe (LL) 10ml • sterile • 40 x 5 pcs

PharmaPack® BD syringe (LL) 20ml • sterile • 8 x 10 pcs



LUER SLIP / **UNCAPPED**



PharmaPack® BD syringe (LS) 1ml • sterile • 20 x 25 pcs

PharmaPack® BD syringe (LS) 2ml • sterile • 75 x 5 pcs

BD Plastipak™ 60ml Luer Lock **Amber Syringe**

Ideal for supporting compounding of photosensitive medication, this syringe has a distinctive coloured barrel to block out up to 90% of light rays keeping light sensitive drugs safe from breakdown or damage

- Validated UV protection
- 1ml metric graduation for precise dosage
- Secure fastening to luer lock devices
- Latex free construction



Individual blister packed

60ml • sterile • 4 x 60 pcs/pck

Syringes, Venting and Transfer Devices

Needle-Free Devices

Syringes, Venting and Transfer Devices

Venting Devices - Cannula



Vented Vial Adapter

Safe, needle-free solution for the reconstitution of cytotoxics, antibiotics and other hazardous chemicals.

- Safe transfer with minimal drug residue left in the vial
- Plastic spike for needle-free reconstitution
- Easy snap-on attachment
- Integrated grip reducing luer contact





20mm • sterile • 100 pcs/pck

13mm • sterile • 100 pcs/pck



PharmaVent™ Needle Vent

Simple-to-use venting device with an integrated 18mm diameter PTFE filter enabling pressure equalisation in vials.

- Integral 0.2 µm vent filter reduces risk of aerosol contamination
- Excellent air flow rate
- Anti-coring tip
- Suitable for all vial sizes





IV0013

PharmaVent™ Spike Vent

Vented, needle-free access to medical and pharmaceutical solutions in different bottle or vial sizes.

- 0.2 µm vent filter to minimise risk of aerosol contamination
- Needle-free anti-coring plastic spike
- Secure luer lock connection for syringe attachment
- Polypropylene protective cap



Swabable Vial Adapter

Secure non-vented reconstitution of drugs whilst maintaining the sterile integrity of the contents.

- Integrated silicone rubber valve allows for repeat access
- Swabable, drip-free surface area
- · Secure connection to luer lock syringes
- Simple, safe fastening to 20mm vials





20mm • sterile • 125 pcs/pck

Rowespike® II Chemo Vent and Filter

All-in-one dual purpose air vent and particulate filtration, granting enhanced user protection during sterile preparation of drugs including cytotoxic solutions.

- 5 µm particle filtration of solutions
- 0.1 µm filter for precise venting
- Easy-to-use ergonomic design
- Safety flip cap to protect luer
- substances



Rowespike® Vent

Safety capped sterile venting device, ideal for vented reconstitution of cytotoxics and other hazardous solutions.

- 0.1 µm filter for precise venting
- Safety flip cap to protect luer connection
- Easy-to-use ergonomic design
- Compatible with cytotoxic substances



sterile • 3 x 50 pcs/pck

particle filtration or avoidance of bacterial contamination.

Syringe Filters / Syringe Transporter

- Secure Male Luer Lock inlet/ Female Luer Lock outlet connectors
- Alcohol and lipid resistant
- PVC free and latex free
- Sterile and CE marked

5 µm PET filter • sterile • 50 pcs/pck

0.2 µm PET filter • sterile • 2 x 50 pcs/pck



Syringes, Venting and Transfer Devices





Helapet Pre-filled Syringe Transporter

A versatile and robust barrier solution for the transit of pre-filled syringes, the Helapet Pre-filled Syringe Transporter provides strong protection against impacts and effective containment of solutions in case of possible syringe discharge.

- Transparent plastic housing
- · Can be heat sealed for additional security
- Secure containment of accidental leakages
- Accommodates 1ml-5ml or 30ml-50ml syringe sizes
- · Available sterile for cleanroom use

1 - 5ml syringes

sterile • 10 x 10 pcs

non sterile • 10 x 10 pcs

30 - 50ml syringes

sterile • 5 x 10 pcs

ST1050

non sterile • 5 x 10 pcs

Syringes, Venting and Transfer Devices

Luer Lock Connector / Syringe Caps



Guarded Female Luer Lock Connector

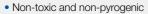
The Guarded Female Luer Lock Connector can be securely applied to luer lock syringes or other luer lock devices to facilitate transfer or mixing of fluids or connecting various IV sets. The large finger grips help to protect against touch contamination during both pack opening and throughout the performance of procedures.

Manufactured from polypropylene the connectors are both latex and pyrogen free and are supplied individually sterile blister packed for economic use.

- Rapid contaminant-free transfer
- Large finger grips facilitating aseptic technique
- Secure double-ended female luer lock connections

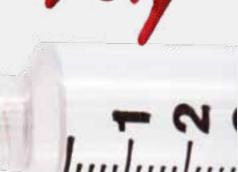
IV57400

23mm • sterile • 100 pcs/pck



CE-marked





Combi-Cap® Luer Lock Syringe Cap

Secure and versatile method of closing syringes, catheters and open-ended IV devices. Helapet Combi-Cap's are microbiologically and structurally integrity tested with our PharmaPack® sterile BD luer lock syringes*.

- Male and female luer lock connection
- Allows alcohol disinfection with no leaching
- Non-toxic and non-pyrogenic

• Sterile and individually blister packed



sterile • 1,000 pcs/pck

Tamper Evident IV Syringe Cap

Designed to reduce the risk of medications being compromised once they have left the custody of the pharmacy, providing a simple to use method of securing syringes during transit. Helapet Tamper Evident IV Syringe Cap's are microbiologically and structurally integrity tested with our PharmaPack® sterile BD luer lock syringes*.

- Secure luer lock connection
- Maintains syringe integrity
- Transparent outer sleeve
- Simple non-touch removal
- Latex free, non-pyrogenic
- CE marked

sterile • 10 x 10 pcs/pck



*NHS Method: Protocols for the Integrity Testing of Devices; 2nd Edition revised April 2013: full test data available on request

View page 36

Try before you buy!

Reduce time and energy with our cleanroom ready Sterile Sharps Bins

Labelled Bags

Specialist Bags and Packaging



Labelled Bags 33

Plain Bags 34

Chemo-Trans-Waste Bag

Chemo-Trans-Waste Bags offer a secure, versatile solution for the transportation and waste disposal of cytotoxic medications.

- Labelled transport of cytotoxic preparations or waste
- Two size options
- Secure tamper-evident seal
- Tough 400 gauge/ 100 micron

polyethylene material



XX1008 W210 x L260mm

sterile • 10 x 10 pcs/pck

W305 x L450mm sterile • 10 x 10 pcs/pck

W210 x L260mm non sterile • 4 x 50 pcs/pck

W305 x L450mm non-sterile • 4 x 50 pcs/pck

MedTrans Waste Bag

Tamper-evident bagging and transport of medications and pharmaceuticals, or for the collection of waste in critical areas.

- Ideal for labelled transport or disposal of drugs
- Write on panel for logging valuable information
- Secure tamper-evident seal
- Tough 400 gauge/ 100 micron polyethylene material



Intrathecal Bag

Designed for the tamper-evident protection of intrathecal drugs transported from a pharmacy to the patient.

- Clear packaging to minimise errors
- Secure tamper-evident seal
- Tough 300 gauge polyethylene material
- Write-on panel for logging valuable information



Vinca Alkaloid Bag

Fully labelled solution for the safe and controlled transport of vinca alkaloid cytotoxic drugs.

- Clear packaging to minimise errors
- Secure tamper-evident seal
- Tough 300 gauge polyethylene material
- Write-on panel for logging valuable information
- Alcohol resistant ink



W200 x L255mm • non sterile • 2 x 100 pcs/pck

Try before you buy!

AFTER USE, DISPOSE OF ACCORDANCE WITH ESTABLISHED PROCEDUR

Specialist Bags and Packaging

Plain Bags

UV Light Inhibiting Amber Bags

Helapet amber bags are fully certified to Pharmacopoeia standards, restricting the amount of observed light passing through the bag and not exceeding 10% threshold at any wavelength in the range of 290nm to 450nm.

- High quality UV protection during transfer or storage of photosensitive products
- Multiple size options
- Open-ended, sealable and resealable
- Strong 250 gauge / 62 micron polyethylene material



Resealable

W152 x L203mm

W203 x L355mm

Sealable

non sterile • 10 x 100 pcs/pck

non sterile • 10 x 100 pcs/pck

W318 x L510mm + 36mm flap

non sterile • 5 x 100 pcs/pck

200 gauge / 50 micron



Open-Ended

W203 x L355mm non sterile • 5 x 100 pcs/pck

W127 x L203mm

non sterile • 5 x 100 pcs/pck PB0192

W76 x L228mm

non sterile • 10 x 100 pcs/pck

W152 x L355mm

non sterile • 10 x 100 pcs/pck

non sterile • 5 x 100 pcs/pck

PB0196 W76 x L279mm

W279 x L457mm

non sterile • 10 x 100 pcs/pck

Isolator Waste Bag

Designed to fit onto the waste port of an isolator, Helapet Isolator Waste Bags allow the removal of accumulated non-sharps waste.

- Can accommodate high volumes of non-sharps waste
- · Convenient waste removal without compromising sterility of the isolator
- Strong 250 gauge / 62 micron polyethylene material
- Individually polybagged and sterilised for efficient cleanroom transfer



Convenient sterile bagging of equipment, products and work materials for secure transfer between controlled environments.

- Strong 250 gauge / 62 micron polyethylene material
- Comprehensive range of sizes including A4
- Resealable for multi-use activities
- Heat sealed and packed in an easy-peel pouch

W228 x L323mm (A4 paper)

XX1116

W279 x L406mm

XX1117

W279 x L406mm sterile • 20 x 10 pcs/pck

W76 x L190mm

*All Helapet amber bags conform to US Pharmacopoeia performance testing standards for light transmission (661 & 671), not exceeding 10% threshold at any wavelength in the UV range of 290nm to 450nm.

Sterile Resealable Polybag

View pages 26-27

- Gamma sterilised for use in controlled working environments

W228 x L323mm (A4 paper) sterile • 8 x 25 pcs/pck

sterile • 20 x 10 pcs/pck

sterile • 40 x 5 pcs/pck

XX1375

sterile • 15 x 40 pcs/pck







Clinical Waste and Spillage

Spill Kits

Clinical Waste and Spillage

Sterile Sharps Bins and Ampoule Breakers

Sterile Sharps Bins

Manufactured to facilitate the safe and efficient disposal of sharps, each sharps bin is pre-cleaned and sterile ready for immediate cleanroom use including in laminar flow cabinets and isolators.

- Colour coded tops for medicinal products and cytotoxic waste
- Tamper resistant closure and disposal
- Individually double or triple polybagged

- Pre-cleaned avoiding lengthy disinfection procedures
- · Terminally gamma sterilised for cleanroom transfer
- Numerous capacity sizes to suit individual requirements



0.6L • sterile • 12 pcs/pck



1L • sterile • 8 pcs/pck **XXTB0677** triple bagged 1L • sterile • 8 pcs/pck



2.5L • sterile • 12 pcs/pck XXTB0472C triple bagged

2.5L • sterile • 12 pcs/pck



5L • sterile • 8 pcs/pck



7L • sterile • 4 pcs/pck XXTB0673C





XX0477 1L • sterile • 8 pcs/pck XXTB0477 triple bagged



2.5L • sterile • 12 pcs/pck



XX0471A 5L • sterile • 8 pcs/pck



XX0473A 7L • sterile • 4 pcs/pck

Ampoule Breaker

Tough and versatile polypropylene container, the Ampoule Breaker facilitates the safe breaking of ampoules, greatly reducing the risk of possible injury.

- Small and compact design
- Safely holds up to 200 caps
- Integrated mouth closure between uses
- Sterile double bagged option suitable for cleanroom transfer

AB7000

non sterile • 48 pcs/ pck

double bagged





Berner Cytotoxic Spill Kit

Designed specifically for handling cytotoxic drugs, each kit provides the user with a selection of necessary aids in the clean-up and disposal of hazardous liquid spills.

- Easy-to-use solution for handling wet cytotoxic spills
- Contains essential PPE and cleaning tools conveniently packed in order of use
- Compact packaging for easy storage and transport
- Enclosed accident report form
- Convenient gown and glove size options



Size 7.5 latex glove & medium gown non sterile • 2 pcs/pck

Size 9 latex glove & large gown non sterile • 2 pcs/pck

CS4004L Size 9 neoprene glove & large gown non sterile • 2 pcs/pck

Size 7.5 neoprene glove & large gown non sterile • 2 pcs/pck

Berner XP Cytotoxic Spill Kit

XP stands for extra protection and this is exactly what you get. Each self-contained kit contains a list of essential tools and PPE to handle both wet and dry cytotoxic spills.

- Easy-to-use dedicated solution for handling wet and dry cytotoxic spills
- Contains essential PPE and cleaning tools conveniently packed in
- Compact packaging for easy storage and transport
- User instructions and illustration guide
- Entirely latex free to prevent allergic reactions



Helapet Home Chemotherapy Spill Kit

Quick response kit for patients, doctors, nurses and oncology practitioners with the means to deal with a spillage of chemotherapy substances away from secure hospital environments.





sterile • 25 pcs/pck





Clinical Waste and Spillage

Spill Control Products and Absorbent Workmats

Berner ChemoSorb Pads

Placed over hazardous spills, the absorbent material converts liquids into a gel substance for safe and easy disposal.

- Assured absorption of up to 3L of liquid
- Compatible with cytotoxic drugs
- Low linting to reduce contamination risk
- Latex free to prevent allergic reactions



non sterile • 10 pcs/pck

HazMat Chemical Absorbent Pillows

Highly absorbent and designed to soak up large quantities of aggressive chemical drips, leaks and spills before they migrate.

- Safe absorption of acids, caustics and unknown liquids
- Won't degrade or cause a dangerous reaction upon contact with corrosive spills
- High capacity to quickly soak up liquids during spill response
- Polypropylene skin resists chemicals and holds in liquid, even when saturated



CS7306 20 x 20cm non sterile • 10 pcs/pck non sterile • 10 pcs/pck

CS7307 20 x 43cm non sterile • 10 pcs/pck

42 x 41cm

Polypropylene Containment Socks

High absorbency of large quantities of aggressive liquids, each sock offers essential containment by easily shaping around the spill.

- Low linting materials
- Can circle spills preventing migration
- Suitable for soaking chemical spills
- Rolled in heat sealed polybags for added



8 x 117cm non sterile • 12 pcs/pck

Berner Cytotoxic Workmat

Ideal for the safe absorption of cytotoxic agents in controlled work environments and as general drip and spill protection.

- Proven 3 layer protective system
- Safe absorption and containment of cytotoxic drugs
- Non-slip backing for added stability on smooth work surfaces
- Individually packaged and sterilised for optimal use in cleanroom environments
- Low linting to reduce risk of contamination



Helapet Pharmacy Workmat

A low linting and absorbent cellulose material with an impermeable polyethylene backing, Helapet Pharmacy Workmats are suitable for protecting work surfaces from accidental drips and spills.

- Smooth absorbent layer for soaking up spills
- Laminated polyethylene bottom layer prevents work surface contamination
- Low linting to reduce risk of contamination



46 x 57cm • non sterile • 50 pcs/pck

Miscelaneous Prep Trays 40

Tacky Mats 41

Steri-Dropper[™] Bottles 41



Try before you buy!

Miscellaneous

Prep Trays

Tacky Mats/Steri-Dropper™ Bottles



Coloured Pharmacy Prep Trays

Helapet offer our range of single-use polypropylene prep trays available in four common colours red, blue, yellow and purple for colour-coding applications*. Available sterile or non sterile in two convenient sizes our trays are designed to support safe handling and transfer of consumables, instruments, medical devices and medications within cleanroom and isolator environments.

- Lightweight durable polypropylene material
- Four opaque colours for colour-coding applications and easy identification*
- Raised smooth edges for safe containment and transportation
- Two convenient sizes for large and small consumable volumes
- Individually double or triple polybagged and terminally sterilised for assured material transfer



Tray Size:	Blue		Red		Yellow		Purple	
large 295 x 245 x 55mm	Product Code	Unit Of Sales						
Non Sterile	PP0312B	50 pcs/pck	PP0312R	50 pcs/pck	PP0312Y	50 pcs/pck	PP0312P	50 pcs/pck
Sterile Double-Bagged	XX0312B	25 pcs/pck	XX0312R	25 pcs/pck	XX0312Y	25 pcs/pck	XX0312P	25 pcs/pck
Sterile Triple-Bagged	XXTB0312B	20 pcs/pck	XXTB0312R	20 pcs/pck	XXTB0312Y	20 pcs/pck	XXTB0312P	20 pcs/pck

Tray Size:	Blue		Red		Yellow		Purple	
small 180 x 115 x 35mm	Product Code	Unit Of Sales						
Non Sterile	PP0326B	200 pcs/pck	PP0326R	200 pcs/pck	PP0326Y	200 pcs/pck	PP0326P	200 pcs/pck
Sterile Double-Bagged	XX0326B	88 pcs/pck	XX0326R	88 pcs/pck	XX0326Y	88 pcs/pck	XX0326P	88 pcs/pck
Sterile Triple-Bagged	XXTB0326B	70 pcs/pck	XXTB0326R	70 pcs/pck	XXTB0326Y	70 pcs/pck	XXTB0326P	70 pcs/pck

Standard Prep Trays

Sterile and non sterile blue coloured prep trays for convenient single-use transfer of devices, medical solutions and loose items.

- Efficient handling of materials being transfered in and out of controlled working environments
- · Lightweight, durable design
- Two convenient size options
- Terminally sterilised option for use in cleanrooms and isolators

•	rei	IIIC

23 x 12 x 2cm small • sterile • 2 x 50 pcs/pck

28 x 23 x 5cm

large • sterile • 2 x 50 pcs/pck

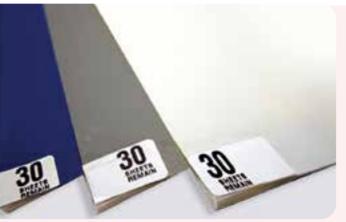
Non sterile

23 x 12 x 2cm

small • non sterile • 30 x 5 pcs/pck

28 x 23 x 5cm

large • non sterile • 15 x 5 pcs/pck







MicroTak Tacky Mats

A comprehensive range of MicroTak tacky mats, ideal for dirt and particle removal from shoes and trolleys before entering cleanrooms and critically controlled environments. Antimicrobial properties provide effective resistance to gram-negative bacteria, gram-positive bacteria, algae and fungi*.

MF46114GY

45 x 115cm

66 x 114cm

non sterile • 4 x 30 lvs/case

non sterile • 4 x 30 lvs/case

- Removes unwanted footwear and wheel-borne contamination
- Economic disposable sheets
- Reduced risk of contamination
- Smooth low profile surface
- Range of sizes and colours available

MF6192WH

60 x 90cm non sterile • 4 x 30 lvs/case

45 x 90cm

non sterile • 4 x 30 lvs/case

White

45 x 115cm non sterile • 4 x 30 lvs/case

*Anti-microbial property data available online

Steri-Dropper[™] Bottles



Miscellaneous

Sterile Utility Marker Pen/Cleanroom Paper

Viscot Sterile Utility Marker Pen Fine Tip

Versatile non-smear marker pen ideal for writing on labels, plastic and glass within a sterile environment.

- Fine tip for precise writing on different materials
- Permanent, waterproof ink
- Ink colour: Black
- Includes 9 blank labels and ruler
- Sterile blister packed for assured transfer and use in cleanrooms and isolators





A4 Cleanroom Paper

Dust free paper for working in critically controlled environments. Outstanding writing ability with both aqueous and oil-based ink. Can be used as pages in work instructions and equipment manuals.

- Purest cellulose to minimise contamination risk in cleanrooms
- Coated for minimal particle and fiber release
- Retains ink from copiers and laser printers to reduce smudging
- Double packed for cleanliness



A4 • non sterile • 8 x 250 shts/pck

) d Chain Solutione

- VaccinePorter® / Vaccine MiniPorter™ / TPNPorter® Carriers 44
 - Medicool® Cool Packs 44
- BloodPorter® / Blood MiniPorter™ / PlasmaPorter® Carriers 45
 - **EPS Inner Chambers 45**
 - Timestrip® Temperature Breach Indicators 46



3loodPorter

Cold Chain Solutions

VaccinePorter® / Vaccine MiniPorter™ / TPNPorter® Carriers



User Guide Poster

A3 and A4 sizes available

Configured to transport small amounts of vaccines, the Helapet

Vaccine MiniPorter™ is a highly versatile temperature controlled

Vaccine MiniPorter™ Carrier - Includes 1 x Medicool® 11 and Medimat

External Dimension 260 x 179 x 131mm • 0.73 Litres • 1 pc/pck

Refurbishment Pack for Vaccine MiniPorter™ Carrier

*full validation data available on request

Includes replacement inner, 1 x Medicool® 11 and Medimat

Configured for use with Vaccine MiniPorter[™] • 1 pc/pck

carrier ideal for site-to-site delivery of cold chain medical products.

Vaccine MiniPorter[™] Carrier

Validated temperature control upto 18 hours*

• Includes Medicool® cool pack and spacer mat

Secure Velcro® fastening

Long over-the-shoulder strap

VaccinePorter® Carrier Systems

Ideal for the controlled transit of vaccines and temperature sensitive solutions which require storage between +2°C and +8°C. The VaccinePorter® carrier system comprises a robust carrying bag, with a replaceable polystyrene inner chamber and Medicool® cool packs.

- Validated +2°C to +8°C temperature control, even with multiple openings*
- Replaceable cool packs and EPS inner chambers
- Tamper-evident facility
- Carrying straps for safe lifting and handling
- Clear PVC window for inserting delivery data
- Comprehensive range of sizes

External Dimensions 328 x 328 x 334mm • 1.5 Litres • 1 pc/pck

VaccinePorter® 9 cool packs not included - order 6 pcs Medicool® 28

External Dimensions 368 x 368 x 374mm • 2.2 Litres • 1 pc/pck

VaccinePorter® 16 cool packs not included - order 14 pcs Medicool® 28 476 x 421 x 341mm • 6.1 Litres • 1 pc/pck

VaccinePorter® 24 cool packs not included - order 8 pcs Medicool® 3 External Dimension 484 x 484 x 410mm • 8.4 Litres • 1 pc/pck

VaccinePorter® 6 cool packs not included - order 6 pcs Medicool® 28

TPNPorter® Carrier

Exclusively designed for the cold chain transportation of Total Parenteral Nutrition (TPN) bags, the TPNPorter® cold chain carrier can accommodate up to 12 Litres of product.

- Large capacity for TPN bags
- Tamper-evident facility
- Designed for safe lifting and handling



- Clear PVC window for inserting delivery data
- Validated temperature control up to 8 hours*

TPNPorter® Carrier External Dimensions 640 x 465 x 335mm • 12 Litres • 1 pc/pck

TPNPorter® Carrier Replacement Inner

Configured for use with TPNPorter®

Medicool® Cool Packs

A water based phase change cool pack, designed specifically for use inside Helapet VaccinePorter® and BloodPorter® carrier systems.

- Non-toxic formula
- 4 sizes configured for use with
- Helapet Porter Carrier Systems
- Can be refrigerated or frozen
- Manufactured to ISO9001:2000 standards

MC033B - Medicool® 28 185 x 170 x 35mm • 18 pcs/pck

B - Medicool® 3

320 x 170 x 35 • 12 pcs/pck

MC030B - Medicool® 11 220 x 130 x 35mm • 20 pcs/pck

MC032B - Medicool® 20 270 x 130 x 35mm • 20 pcs/pck



Medicool® 3 Medicool® 11



EPS Inner Chambers

PlasmaPorter® Carrier

• Uses 5kg dry ice (not included)

• Clear PVC window for inserting

Tamper-evident facility

Dry Ice (5kg) - not supplied 368 x 368 x 374mm

6.3 Litres • 1 pc/pck

delivery data

Replaceable polystyrene (EPS) inners for maintaining integrity and temperature control performance inside Helapet VaccinePorter®, BloodPorter® and PlasmaPorter® carrier systems.

Based on our BloodPorter® carrier design. PlasmaPorter® has been

configured to transport over 11 Litres of fresh frozen plasma (FFP).

• Validated -100°C to 0°C temperature control for up to 79hrs*

BloodPorter® Carrier Systems

Specifically validated for the temperature controlled transit of red blood

replaceable polystyrene inner chamber and Medicool® cool packs.

cells, platelets and plasma between hospital sites, blood banks and wards.

Each BloodPorter® carrier system comprises a robust carrying bag, with a

Replacement Inners VaccinePorter® Carriers 6 Inner • 1 pc/pck /PI009 - 9 Inner • 1 pc/pck /PI016 - 16 Inner • 1 pc/pck

VPI024 - 24 Inner • 1 pc/pck

Replacement Inners BloodPorter® & PlasmaPorter® Carriers

P1004 - 4 Inner • 1 pc/pck 6 Inner • 1 pc/pck 16 Inner • 1 pc/pck 27 Inner • 1 pc/pck 40 Inner • 1 pc/pck 16.1 - 16.1 Inner • 1 pc/pck



Validated 2°C to 10°C and 20°C to 24°C temperature control*

• Compatible with replaceable cool packs and EPS inner chambers

Cold Chain Solutions

- Tamper-evident facility
- Carrying straps for safe lifting and handling
- Clear PVC window for inserting delivery data
- Comprehensive range of sizes

BloodPorter® / Blood MiniPorter™ / PlasmaPorter® Carriers

BloodPorter® 4 cool packs not included - order Medicool® 28 260 x 260 x 267mm • 1 pc/pck

BloodPorter® 6 cool packs not included - order Medicool® 28

315 x 315 x 322mm • 1 pc/pck

BloodPorter® 16 cool packs not included - order Medicool® 20

368 x 368 x 374mm • 1 pc/pck

BloodPorter® 27 cool packs not included - order Medicool® 20

476 x 421 x 341mm • 1 pc/pck

BloodPorter® 40 cool packs not included - order Medicool® 3

484 x 484 x 410mm • 1 pc/pck

Order our BloodPorter® **User Guide Poster**

A3 and A4 sizes available

Blood MiniPorter[™] Carrier

Configured for site-to-site transport of small amounts of blood units and samples, the Helapet Blood MiniPorter™ is a compact, lightweight alternative to the larger BloodPorter® carrier system.

- Validated temperature control upto 31/2 hours*
- Includes Medicool® cool pack.
- Secure Velcro® fastening
- Long carrying strap



Blood MiniPorter[™] Carrier *Includes 1x Medicool*[®] 11 External Dimensions 260 x 179 x 131mm • 0.73 Litres • 1 pc/pck

Refurbishment Pack for Blood MiniPorter™ Carrier Includes replacement inner, 1 x Medicool® 11 Configured for use with Blood MiniPorter™ • 1 pc/pck

*full validation data available on request

Cold Chain Solutions

Timestrip® / Blood Temp Indicators



Timestrip® PLUS +8°C Temperature **Breach Indicator**

Cost-effective and accurate single-use device which allows visual monitoring of how long a temperature breach has occurred above the +8°C temperature threshold.

- Accurate temperature monitoring
- Simple to activate and apply
- Easy visualisation of temperature breach information
- Water resistant
- Environmentally friendly

(htimestrip*rus* 8°C/46°F **TP065** S/N.

+8°C Temp Breach Indicator • 100 pcs/pck



Blood Temp Temperature Breach Indicators

For front-line personnel who rely on the "30 minute rule" for the compliant re-issue of red blood cells, the Blood Temp series of temperature breach indicators accurately displays core blood bag temperature breaches above +6°C and +10°C.

- Accurate monitoring of core blood bag temperatures
- Irreversible indication of temperature breaches
- Easy push button activation with no pre-conditioning
- Splash resistant
- Individual serial number and lot traceability



+6°C Temp Breach Indicator • non-sterile • 100 pcs/pck





+10°C Temp Breach Indicator • non-sterile • 100 pcs/pck





Veterinary Supplies

Adhesive Remover / Veterinary Procedure Packs

Veterinary Adhesive Remover Spray

Ready-to-use solution for the quick no-sting removal of wound dressings and medical devices using skin adhesives.

Helapet Veterinary Adhesive Remover spray grants comfortable coldfree application to the skin reducing the risk of animal movement. Integrated "bag-on-valve" technology improves usability with quiet dispensing of the aerosol in any direction preventing unnecessary stress to the animal during application.

- · Quick no-sting removal of adhesive based dressings from skin hair and fur
- Comfortable no-cold sensation when applied
- Reduced skin trauma and risk of infection resulting from animal bites and scratching
- Does not compromise adhesion once evaporated allowing for precise repositioning or application of new dressings

50ml • non sterile • 12 pcs/pck



Veterinary Cyto Assistant's Pack

Complementing the Veterinary Cyto Procedure Pack, the Cyto Assistant's Pack offers the same quality protective apparel applied to support staff required for handling animals during cytotoxic administration procedures.

- Essential protective disposables in one handy pack
- Type-tested protective apparel with lengthy breakthrough times
- Reduced preparation time
- Vacuum sealed and individually labelled



Kit components are available to buy separately:

SN0425L	BioClean™ Clearview™ Facemask	page 14
GP3080	Berner Cytotoxic Neoprene Glove	page 12
AB0001*	Berner Cytotoxic Resistant Oversleeves	page 22
AB2020**	Berner Cytotoxic Resistant Gown	page 19

*Std **Deluxe

CS5015

Veterinary Cyto Assistant's Pack includes Berner cytotoxic oversleeves - AB0001 std • 4 pcks/case

CS5025

Veterinary Cyto Assistant's Pack includes Berner cytotoxic resistant gow - AB2020

Veterinary Cyto Procedure Pack

A handy "grab and go" pack containing Helapet type-tested accessories, designed to protect veterinary professionals against accidental cytotoxic contamination during preparation and administration procedures.

• Essential protective disposables in one handy pack



Kit components are available to buy separately:

XXTB6725	SteriClean® IPA Wipes	page 6
SN0425L	BioClean™ Clearview™ Facemask	page 14
IV4040	PharmaVent™ Spike Vent, 0.2 µm PTFE	page 28
PB1218	Chemo-Trans-Waste Bag 400 gauge	page 34
WP8001	Berner Cytotoxic Workmat	page 39
GP3080	Berner Cytotoxic Neoprene Glove	page 12
AB0001*	Berner Cytotoxic Resistant Oversleeves	page 22
AB2020**	Berner Cytotoxic Resistant Gown	page 19

CS5010

Veterinary Cyto Procedure Pack includes Berner cytos sleeves - AB0001

Veterinary Cyto Procedure Pack - AB2020

Contract



Cleanroom Contract Packing and Liquid Filling



Cleanroom Contract Packing and Liquid Filling

Helapet offer significant cleanroom capacity to manually pack, bag and seal according to project specifications.

Our semi-automated bagging technology means Helapet has the flexibility to accommodate larger bulk projects and run different bagging formats.

Our liquid filling services are conducted in an ISO Class 4 environment, providing clients with assured product quality.

Using extensive knowledge and a trusted network of sterilisation suppliers, Helapet provide consultation and sterilisation management with testing data to ensure all products comply before final release.

In-process quality control and monitoring with regular inspections to provide additional peace of mind.

- ISO class 7 rated cleanroom
- ISO class 4 environment
- Regular environmental
- and microbiological monitoring
- ISO13485:2016 accredited

Cleanroom Packing and Bagging Options include:

- Individual component packing
- Single, double and triple bagging services
- Bespoke packaging configurations
- Pouch sealing
- Poly bagging
- Own brand labelling



Liquid Filling and Processing Options include:

- Trigger spray bottle filling
- Bag-in-bottle closed systems
- Capped containers
- Biocide filling
- Impregnated wipes
- Own brand labelling



Inline Disc Filters

Vari-Disk® Service 52



Helapet offer unrivalled quality in the design and manufacture of our inline disc filters, available as off-the-shelf products or custom made specials. We supply filters for OEM and end-user applications in a wide range of markets including pharmaceutical, environmental monitoring, print, food and drink and electronics. Helapet strive to introduce added value to our bespoke filter products, using consultancy based manufacturing and comprehensive testing to meet customer expectations.



Inline Disc Filters

Vari-Disk® Custom Design Service

Helapet custom manufacture disposable in-line disc filters, used for the vital protection of sensitive instrumentation from the risk of particulates, moisture and micro-contamination. Each filter is produced in an ISO Class 8 rated cleanroom, combining a variety of filter media contained in a circular polymer housing with a selection of inlet/outlet connectors.

Compact, low linting and clean, our filters are used for a variety of equipment protection applications including gas venting, liquid clarification and particle filtration. Our Tampo print technology allows clients to add branding or information directly onto the filter in a range of colours.

- ✓ Can be fitted inline onto a variety of devices and instrumentation
- ✓ Precisely designed to exact specifications and tolerances
- √ Compact and lightweight for neat fitting inside equipment
- ✓ Cleanroom manufactured to reduce risk of contamination
- ✓ Low production volumes at competitive prices
- ✓ Complete traceability and certification

Design your own filter in 5 easy steps

We take pride in providing our customers with their ideal filter solution, first time. To do this we have created an easy online tool to design your filter and provided an easy guide to the design process below.

Choose Your Filter Size

The effective filtration area of the media should be enough to process the sample without affecting the desired flow rate. Choose from three different sizes of filter and effective filtration area



Select Inlet/Outlet Connectors

Helapet provide an extensive range of connectors for the inlet and ojutlet sides of each filter, available in the right combination to meet your specifications.



Select The Right Media

Filter media is critical to your application. Choose the materials for its inherent properties: such as hydrophilic/phobic, pore strength, chemical compatibility and thermal stability.



Custom Print Your Filter

Our OEM service offers the option to brand your filter with company logo or part numbers directly onto your filter on either the inlet or outlet sides, in a range of ink colours.



Our expert knowledge means we can supply our filters non-sterile or sterilised by Ethylene Oxide (ETO)

We pride ourselves on offering a consultancy based

using CAD software to create accurate filter designs

for you to test before proceeding to manufacture

manufacturing service, working closely with our clients and

We can produce prototype samples of each new filter product

Testing And Packaging Services

We offer testing, packaging and sterilisation services, which reduces time, improves convenience and provides added assurance

Test methods we offer to validate filter performance

✓ Bubble point / alcohol

✓ Housing integrity

- ✓ Media integrity
- ✓ Air / liquid flow rate
 ✓ WEP

Sampling

✓ Burst

Client services include:

In-process consultancy



We found Helapet very easy to work with, the understanding of our filter requirements and technical knowledge have ensured we got the right product to suit our needs. Autoclave Manufacturer

Inline Disc Filters

Common Applications





Autoclave Disc Filters

- 0.3µm HEPA media
- High performance particulate removal to 99.97%
- Ultrasonically welded media to prevent
- Allows transfer of air for bi-directional flow



Pipette Controller Disc Filters

- High particle retention
- Hydrophobic PTFE media
- Avoid contamination in critical applications
- Customisable to specific filtration requirements



- Hydrophobic PTFE membrane
- Helps protect the instrument from particulate contamination and moisture damage
- Customisable to specific filtration requirements



Vacuum Pump Disc Filters

- Easy to apply and remove from tubing



CO₂ Incubator Disc Filters

- Hydrophobic rated filters, ideal for retention of moisture in air
- Protects CO₂ incubators from contamination and moisture damage
- Customisable to specific filtration requirements



Gas Analyser Filters

- PTFE rated at 99.9999% particle retention
- · Ensuring safety of sensitive electronics whilst maximising flow rates
- Ideal as a last chance filter for protecting moisture sensitive equipment
- Customisable to specific filtration requirements



Ink Jet Disc Filters

- Allows even distribution of ink ensuring high quality finish whilst protecting against particulate contamination
- Tested to withstand up to 50psi, allowing positioning on high pressure lines
- Available 1µm to 100µm sizes
- Customisable to specific filtration requirements

Standard Filters

Our standard parts contain our most requested combinations to suit a wide range of applications.

Product Code	Size	Media	Inlet	Oi
FH4235	24mm	0.2µm PTFE	Male Luer Slip	Ma
FH4335	24mm	0.45µm PTFE	Male Luer Slip	Ma
FH0315	25mm	0.2µm PTFE	Female Luer Lock	Ma
FH0371	25mm	0.3µm HEPA	3/16" Stepped Hose Barb	3/
FH3375	25mm	1.0µm PTFE	3/16" Stepped Hose Barb	3/
FH0595	50mm	0.2µm PTFE	1/8" NPT	1/3
FH0555	50mm	0.2µm PTFE	1/4" Stepped Hose Barb	1/
FH1551	50mm	0.3µm HEPA	1/4" Stepped Hose Barb	1/
FH5581	50mm	0.3µm HEPA	3/16" Stepped Hose Barb	3/
FH25101	50mm	0.3µm HEPA	1/8" BSPT Cut Flush	1/
FH8555	50mm	0.45µm PTFE	1/4" Stepped Hose Barb	1/-
FH3575	50mm	1.0µm PTFE	3/16" Stepped Hose Barb	3/
FH3555	50mm	1.0µm PTFE	1/4" Stepped Hose Barb	1/
FH3597	50mm	40μm WPE	1/8" NPT	1/

15.		
	Outlet	Sales Unit
	Male Luer Slip	50 pcs/pck
	Male Luer Slip	50 pcs/pck
	Male Luer Slip	50 pcs/pck
	3/16" Stepped Hose Barb	50 pcs/pck
	3/16" Stepped Hose Barb	50 pcs/pck
	1/8" NPT	20 pcs/pck
	1/4" Stepped Hose Barb	20 pcs/pck
	1/4" Stepped Hose Barb	20 pcs/pck
	3/16" Stepped Hose Barb	20 pcs/pck
	1/8" BSPT Cut Flush	20 pcs/pck
	1/4" Stepped Hose Barb	20 pcs/pck
	3/16" Stepped Hose Barb	20 pcs/pck
	1/4" Stepped Hose Barb	20 pcs/pck
	1/8" NPT + Jaco connector	20 pcs/pck

Product Order Codes

	Order Code	Page	Order Code	Page										
R82020	AB0001	22	BPI016.1	45	GL1085-50	11	IV0013	28	PP0312P	40	XX0312R	40	XX3503BD	27
RE2030	AB2010	19	BPI027	45	GL1090-50	11	IV0020L	28	PP2312	40	XX0312Y	40	XX6250	5
REDINO 19	AB2020	19	BPI040	45	GL3010	11	IV1630	41	PP2428	40	XX0471A	36	XX6251	5
ABF0000 22 CS0015 21 CL3025 11 V1634 41 SF4105 9 XX0473A 36 XX6307 6 ABF000 36 CS0999 37 GL30309 11 V2102 31 SNU4251 14 XX0477 36 XX6670 7 ARA402 16 CS120016 38 CL3056 11 V5002 30 SNE202 14 XX0605A 36 XX6705 7 ARA3113 16 CS4004 37 GL5070 11 V5700 31 ST1005 30 XX0673C 36 XX6707 7 ARA3113 16 CS4004 37 GL5070 11 V5700 31 ST1005 30 XX06767 38 XX6710 7 ARA3111 16 CS4004 37 GL5085 11 V5700 31 ST1005 30 XX00677 38 XX6710 7 ARA511 16 CS4004 37 GL5085 11 V6700 31 ST1005 30 XX1004 34 XX6712 7 ARA5212 14 CS4004 37 GL5085 11 V6700 31 ST1005 30 XX1004 34 XX6712 7 ARA5212 14 CS4004 37 GL5085 11 V6700 31 ST1005 30 XX1004 34 XX6712 7 ARA5212 14 CS4004 37 GL5085 11 V6700 29 T8006 46 XX1005 34 XX6720 6 ARA5213 XX6789 7 ARA5212 XX6712 XX	AB2030	19	BPM011	45	GL3015	11	IV1632	41	PT0141	42	XX0472A	36	XX6252	5
AB7000 S CS0899 37 CL3030 11 N2102 31 SN0425L 14 XX0477 36 XX6603 9 AF4402 16 CS12016 38 CL3040 11 N4040 28 SN0425T 14 XX0477 36 XX6700 7 AN0068 22 CS2004 38 GL3040 11 N5010 30 SN86201 14 XX0665A 36 XX6705 7 AN048131 16 CS4004 37 GL5070 11 N5010 30 SN86201 14 XX0665A 36 XX6705 7 AN3115 16 CS4004 37 GL5070 11 N5010 30 SN8601 8 XX0677 36 XX6705 7 AN3115 16 CS4004L 37 GL5070 11 N5010 30 SN8601 8 XX0677 36 XX6705 7 AN3115 16 CS4004L 37 GL5080 11 N57540 31 ST1005 30 XX0677 36 XX6710 7 AN34151 16 CS4004L 37 GL5080 11 N57540 31 ST1005 30 XX0677 36 XX6710 7 AN34151 16 CS4004L 37 GL5080 11 N57540 31 ST1005 30 XX0677 36 XX6710 7 AN34151 16 CS4004L 37 GL5080 11 N57540 31 ST1005 30 XX0677 36 XX6710 7 AN34151 16 CS4004L 37 GL5080 11 N57540 31 ST1005 30 XX0677 36 XX6710 7 AN34151 16 CS4004L 37 GL5080 11 N57540 31 ST1005 30 XX0677 36 XX6710 7 AN4411 16 CS4004N 37 GL5085 11 N6766 29 TB006 46 XX1006 33 XX6770 7 AN4511 16 XX1007 31 XX6700 31 XX6700 30 XX6770 36 XX6700 7 AN0016 23 CS4124 37 GN3010 13 N6017 29 TB006 46 XX1008 33 XX6768 7 AD2401 23 CS4133 37 GN3010 13 N72026 28 TM0638 15 XX1116 34 XX6800 8 AD700CS 22 CS5010 48 GN3020 13 N7212 29 TB065 46 XX1107 34 XX6800 8 AD700CS 23 CS5015 48 GN3030 13 MC0328 44 VPR06 44 XX1376 34 XX6900 8 AD700CS 23 CS5015 48 GN80100 13 MC0328 44 VPR06 44 XX1376 34 XX6900 8 AT0003 16 CS5020 48 GN861000 13 MC0328 44 VPR06 44 XX1376 34 XX6900 30 AT0010 24 CS7015 38 GN865100 12 MF6614WH 41 VPR09 44 XX1308 34 XX7700 30 AT01010 17 CS7307 38 GN865100 12 MF6614WH 41 VPR09 45 XX3016BD 27 XXTB03288 40 AT0110 17 FN0515 53 GP306100 12 MF6614WH 41 VPR09 45 XX3016BD 27 XXTB03288 40 AT1400 20 FN557 53 GS000 12 PB019 34 VPR06 45 XX3016BD 27 XXTB03288 40 AT1400 20 FN557 53 GS000 12 PB019 34 VPR06 45 XX3016BD 27 XXTB03288 40 AT1400 20 FN557 53 GS000 12 PB019 34 VPR06 45 XX3016BD 27 XXTB0312R 40 AT1400 20 FN557 53 GS000 12 PB019 34 VPR06 45 XX3016BD 27 XXTB0312R 40 AT1400 20 FN557 53 GS000 12 PB019 34 VPR06 45 XX3016BD 27 XXTB0312R 40 AT1440 20 FN557 53 GS000 12 PB019 34 VPR06 45 XX3016BD 27 XXTB0312R 40 AT1400 20	AB2040	19	CS0014	21	GL3020	11	IV1633	41	SF2112	9	XX0472C	36	XX6253	5
AF-14402 16	AB6000	22	CS0015	21	GL3025	11	IV1634	41	SF4105	9	XX0473A	36	XX6307	6
MINOBER 22 CS2004 38 GL50E5 11 N5002 30 SN5202 14 X0605A 36 X06705 7	AB7000	36	CS0999	37	GL3030	11	IV2102	31	SN0425L	14	XX0477	36	XX6603	9
MR3113	AF4402	16	CS120016	38	GL3040	11	IV4040	28	SN0425T	14	XX0478C	36	XX6700	7
AMS115	AN0068	22	CS2004	38	GL5065	11	IV5002	30	SN5202	14	XX0605A	36	XX6705	7
MASTITI 16	AN3113	16	CS4004	37	GL5070	11	IV5010	30	SP6801	8	XX0673C	36	XX6709	7
Misson M	AN3115	16	CS4004A	37	GL5075	11	IV57400	31	ST1005	30	XX0677	36	XX6710	7
ADDITION	AN4311	16	CS4004L	37	GL5080	11	IV5750R	31	ST1050	30	XX1004	34	XX6712	7
A02401 23 C\$4133 37 G\$3015 13 V72026 28 T\$10638 15 XX1116 34 X66800 8 A A02565 24 C\$4135 37 G\$3020 13 V7471 29 T\$P065 46 X1117 34 X6800 8 A A0700C\$ 23 C\$5010 48 G\$3020 13 M\$0030B 44 V\$1050 48 XX1218 33 X6901 8 A0700C\$ 23 C\$5015 48 G\$3030 13 M\$0032B 44 V\$1050 48 XX1218 33 X6901 8 A0700C\$ 23 C\$5015 48 G\$3030 13 M\$0032B 44 V\$1060 44 XX1375 34 X6800 8 A70000 16 C\$5020 48 G\$306100 13 M\$0033B 44 V\$1060 44 XX1375 34 X7000 36 A70000 16 C\$5020 48 G\$306100 13 M\$0033B 44 V\$1016 44 XX1375 34 X7000 36 A70000 12 C\$5015 38 G\$306100 13 M\$46114W1 41 V\$10390 44 XX1328 40 XX571005 30 A70110 17 C\$7306 38 G\$3080100 13 M\$46114W1 41 V\$10390 44 XX3302B 27 XXTB0326B 40 A70110 17 C\$7307 38 G\$3080100 13 M\$46114W1 41 V\$10390 44 XX3301BB 27 XXTB0326B 40 A70110 17 F\$10315 53 G\$306100 13 M\$46114W1 41 V\$10390 45 XX3101BD 27 XXTB0326B 40 A70110 17 F\$10315 53 G\$3065100 12 M\$66192W1 41 V\$1010 45 XX3101BD 27 XXTB0326B 40 A70140 17 F\$10371 53 G\$307000 12 M\$66192W1 41 V\$1010 44 XX3101BD 27 XXTB0326P 40 A70140 17 F\$10555 53 G\$3080100 13 M\$46914W 41 V\$1010 44 XX3101BD 27 XXTB0326P 40 A70140 20 F\$10551 53 G\$3080100 12 M\$6030 42 V\$1016 45 XX3101BD 27 XXTB0326P 40 A71440 20 F\$10555 53 G\$3080100 12 P\$0190 34 V\$1024 44 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$3080100 12 P\$0190 34 V\$1024 44 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$3080100 12 P\$0190 34 V\$1024 44 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$308010 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$3080 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$1050 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$1050 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$1050 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$1050 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$1050 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 27 XXTB0312B 40 A71440 20 F\$10555 53 G\$1050 12 P\$0190 34 V\$1024 54 XX3101BD 27 XXTB0312B 27 XXTB0312B 27 XXTB0312B 27 XXTB0312B 27 XXTB031	AN5202	14	CS4004N	37	GL5085	11	IV6016	29	TB006	46	XX1005	34	XX6720	6
A02565 24	A00016	23	CS4124	37	GN3010	13	IV6017	29	TB010	46	XX1008	33	XX6769	7
A0700CS 23 CS5010 48 GN3025 13 MC030B 44 VAR1050 48 XX1218 33 XX6901 8 A0700CS 23 CS5015 48 GN3030 13 MC032B 44 VP006 44 XX1375 34 XX6902 8 AT0003 16 CS5020 48 GN9610100 13 MC033B 44 VP009 44 XX1538 34 XX7000 36 AT0006 22 CS5025 48 GN962100 13 MC034B 44 VP016 44 XX1332 40 XX511005 30 AT0010 24 CS7015 38 GN9620100 13 MF46114WH 41 VP029 44 XX242E 40 XX511005 30 AT0110 17 CS7306 38 GN9625100 13 MF46114WH 41 VP0390 44 XX3052BD 27 XXTB0326B 40 AT0120 17 CS7307 38 GN9620100 12 MF66192WH 41 VP009 45 XX3101BD 27 XXTB0326B 40 AT0130 17 FH0315 53 GP3067100 12 MF66192WH 41 VP1006 45 XX3101BD 27 XXTB0326B 40 AT0140 17 FH0371 53 GP3067100 12 MF66192WH 41 VP1009 45 XX3101BD 27 XXTB0326B 40 AT1410 20 FH0595 53 GP3068100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 AT1420 20 FH1551 53 GP3069100 12 MF66114B 41 VP1011 44 XX3103BD 27 XXTB032BP 40 AT1420 20 FH565 53 GP3068100 12 MF06114B 41 VP1011 44 XX3103BD 27 XXTB0312B 40 AT1440 20 FH565 53 GP3069100 12 FB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1440 20 FH567 53 GP3069100 12 FB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1440 20 FH567 53 GP3069100 12 FB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1440 20 FH567 53 GS1065 12 FB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1440 20 FH567 53 GS1065 12 FB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1440 20 FH567 53 GS1065 12 FB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1440 20 FH567 53 GS1065 12 FB0190 34 VP1024 45 XX310BD 27 XXTB0312B 40 AT1450 20 FH5675 53 GS1065 12 FB0190 34 VP1024 35 XX1B0BD 27 XXTB0312B 40 AT1450 20 FH5675 53 GS1065 12 FB0190 34 VP1024 35 XX1B0BD 27 XXTB0312B 40 AT1450 20 FH5675 53 GS1065 12 FB0190 34 VP1024 35 XX1B0BD 27 XXTB0312B 40 AT1520 20 FH5675 53 GS1065 12 FB0190 34 VP1024 35 XX1B0BD 27 XXTB0312B 27 XXTB0310BD 27 XXTB0310BD 27 XXTB0312B 27 XXTB0312B 27 XXTB0312B 27	A02401	23	CS4133	37	GN3015	13	IV72026	28	TM0638	15	XX1116	34	XX6800	8
ACTOLOGE 22 CS5015 48 GN3030 13 MC032B 44 VP006 44 XX1375 34 XX6902 8 AT0003 16 CS5020 48 GN9610100 13 MC033B 44 VP009 44 XX1538 34 XX7000 36 AT0006 22 CS5025 48 GN9610100 13 MC034B 44 VP016 44 XX2312 40 XX5T105 30 AT0010 24 CS7015 38 GN9620100 13 MF46114GV 41 VP016 44 XX242B 40 XXST1050 30 AT0110 17 CS7306 38 GN9625100 13 MF46114GV 41 VP009 44 XX3052BD 27 XXT80326B 40 AT0120 17 CS7307 38 GN9630100 13 MF4692WH 41 VP009 45 XX3101BD 27 XXT80326B 40 AT0130 17 FH0315 53 GP306100 12 MF6192WH 41 VP009 45 XX3101BD 27 XXT80326B 40 AT0140 17 FH0371 53 GP307100 12 MF6114B 41 VP0101 44 XX3101LS 27 XXT80326B 40 AT0140 17 FH0371 53 GP307100 12 MF6114B 41 VP0101 44 XX3101LS 27 XXT80326B 40 AT0140 20 FH0595 53 GP3075100 12 MF0003 42 VP016 45 XX3103BD 27 XXT80312B 40 AT1410 20 FH0595 53 GP3080100 12 MF0003 42 VP016 45 XX3103BD 27 XXT80312B 40 AT1440 20 FH3375 53 GP3080100 12 MF0003 42 VP016 45 XX3103BD 27 XXT80312B 40 AT1440 20 FH3375 53 GP3080100 12 MF0003 42 VP016 45 XX3103BD 27 XXT80312B 40 AT1440 20 FH3375 53 GP3080100 12 MF0003 42 VP016 45 XX3103BD 27 XXT80312B 40 AT1440 20 FH3375 53 GP3080100 12 MF0003 42 VP016 45 XX3103BD 27 XXT80312B 40 AT1440 20 FH3375 53 GP3080100 12 MF0019 34 VP0024 45 XX3103BD 27 XXT80312P 40 AT1440 20 FH3375 53 GP3080100 12 MF0019 34 VP0011 44 XX3103BD 27 XXT80312P 40 AT1450 20 FH3375 53 GS1065 12 MF0019 34 VP0011 44 XX310BD 27 XXT80312P 40 AT1450 20 FH3375 53 GS1080 12 MF0019 34 VP0011 38 XX310BD 27 XXT80312P 40 AT1450 20 FH3375 53 GS1080 12 MF0019 34 VP0011 38 XX310BD 27 XXT80673C 36 AT1520 18 FH3375 53 GS1080 12 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 27 AT520 18 FH3375 53 GS1080 12 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 27 AT520 18 FH3375 53 GS1080 12 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 27 AT5240 18 FH3375 53 GS1080 12 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 27 AT5240 18 FH3375 53 GS1080 12 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 27 AT5240 18 FH3385 53 GS1080 12 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 27 AT5240 18 FH3385 53 GS1080 13 MF0019 33 XX0006 22 XX310BD 27 XXT80505BD 2	A02565	24	CS4135	37	GN3020	13	IV7471	29	TP065	46	XX1117	34	XX6900	8
ATO003 16 CSS020 48 GN9610100 13 MC033B 44 VP009 44 XX1538 34 XX7000 36 AT00100 22 CSS025 48 GN9615100 13 MC034B 44 VP016 44 XX2312 40 XXST1005 30 AT0010 24 CS7015 38 GN9625100 13 MF46114GY 41 VP024 44 XX3052BD 27 XXTB0326B 40 AT0110 17 CS7306 38 GN9625100 13 MF46114WH 41 VP0390 44 XX3052BD 27 XXTB0326B 40 AT0110 17 CS7307 38 GN9625100 13 MF46114WH 41 VP0390 44 XX3052BD 27 XXTB0326B 40 AT0110 17 CS7307 38 GN9625100 12 MF4619WH 41 VP1090 45 XX3101BD 27 XXTB0326B 40 AT0110 17 CS7307 38 GN9625100 12 MF66114WH 41 VP10909 45 XX3101BD 27 XXTB0326B 40 AT0110 17 CS7307 38 GN9625100 12 MF66114WH 41 VP10909 45 XX3101BD 27 XXTB0326B 40 AT0110 17 CS7307 38 GP306100 12 MF66114WH 41 VP1011 44 XX3101LS 27 XXTB0326B 40 AT0110 17 CS7307 38 GP3080100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 AT0110 17 CS7307 38 GP3080100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 AT0110 17 CS7307 38 GP3080100 12 MF60114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 AT0110 17 CS7307 38 GP3080100 12 MF0033 42 VP1016 45 XX3103BD 27 XXTB0312B 40 AT1420 20 FH1551 53 GP308100 12 MF0033 42 VP1016 45 XX3103BD 27 XXTB0312B 40 AT1420 20 FH3575 53 GS1066 12 MF0033 44 WF0034 77 XX3105BD 27 XXTB0312P 40 AT1440 20 H3375 53 GS1066 12 MF0034 34 WF0034 77 XX3105BD 27 XXTB0312P 40 AT1440 20 H3375 53 GS1066 12 MF0034 34 WF0034 77 XX3105BD 27 XXTB0312P 40 AT1450 20 H3375 53 GS1066 12 MF0034 34 WF0034 77 XX3105BD 27 XXTB0372P 40 AT1520 20 H3375 53 GS1080 12 MF0038 34 WF0034 38 XX3120BD 27 XXTB0372D 27 XXTB0372P 40 AT1520 18 H4235 53 GS1080 12 MF0038 34 WF0034 38 XX3120BD 27 XXTB0372D 27	A0700CS	23	CS5010	48	GN3025	13	MC030B	44	VAR1050	48	XX1218	33	XX6901	8
ATO006 22 CS5025 48 GN9615100 13 MC034B 44 VP016 44 XX2312 40 XXST1005 30 ATO100 24 CS7015 38 GN9620100 13 MF46114GY 41 VP024 44 XX2428 40 XXST1050 30 ATO110 17 CS7306 38 GN9625100 13 MF46114WH 41 VP0390 44 XX3052BD 27 XXTB0326B 40 ATO120 17 CS7307 38 GN9625100 12 MF46114WH 41 VP1009 45 XX3101BD 27 XXTB0326F 40 ATO130 17 FH0315 53 GP3065100 12 MF66114B 41 VP1009 45 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0315 53 GP3065100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326F 40 ATO140 17 FH0315 53 GP3065100 12 MF66114B 41 VP1011 44 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0555 53 GP3065100 12 MF66114B 41 VP1014 44 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0555 53 GP3065100 12 MF60114B 41 VP1014 44 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0555 53 GP3065100 12 MF60114B 41 VP1014 44 XX3103BD 27 XXTB0326F 40 ATO140 20 FH0595 53 GP3085100 12 PB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 ATO140 20 FH3515 53 GP3085100 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312B 40 ATO140 20 FH3575 53 GS1065 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0195 34 WN6709 7 XX3110BD 27 XXTB0472C 36 ATO150 20 FH3575 53 GS1085 12 PB0196 34 WN6709 7 XX3110BD 27 XXTB0472C 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX3110BD 27 XXTB0472C 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX3110BD 27 XXTB0472C 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6701 38 XX3120BD 27 XXTB0477 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX310BD 27 XXTB0472C 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX310BD 27 XXTB0477 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX310BD 27 XXTB0477 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX310BD 27 XXTB0477 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX310BD 27 XXTB0477 36 ATO150 20 FH3575 53 GS1085 12 PB028 34 WN6709 7 XX310BD 27 XXTB0477 36 ATO150 20	A0702CS	23	CS5015	48	GN3030	13	MC032B	44	VP006	44	XX1375	34	XX6902	8
ATO010 24 CS7015 38 GN9620100 13 MF46114GY 41 VP024 44 XX2428 40 XXST1050 30 ATO110 17 CS7306 38 GN9625100 13 MF46114WH 41 VP0390 44 XX3052BD 27 XXTB0326B 40 ATO130 17 FH0315 53 GP3065100 12 MF66194WH 41 VP1006 45 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0371 53 GP3065100 12 MF66194WH 41 VP1009 45 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0555 53 GP3065100 12 MF66194WH 41 VP1009 45 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0555 53 GP3065100 12 MF66194WH 41 VP1009 45 XX3103BD 27 XXTB0326F 40 ATO140 17 FH0555 53 GP3065100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0312B 40 ATO140 20 FH0595 53 GP3085100 12 MF06114B 41 VP1016 45 XX3103BD 27 XXTB0312B 40 ATO140 20 FH0595 53 GP3085100 12 MF06114B 41 VP1011 44 XX3103BD 27 XXTB0312B 40 ATO140 20 FH3575 53 GP3085100 12 MF06114B 41 VP1011 44 XX3103BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 44 XX3105BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 44 XX3105BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 44 XX310BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 44 XX310BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 44 XX310BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 38 XX310BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1085 12 MF0191 34 VP1011 38 XX310BD 27 XXTB0312P 40 ATO140 20 MF3575 53 GS1085 12 MF0191 34 VP1011 38 XX310BD 27 XXTB0472 36 AT030 20 MF3575 53 GS1085 12 MF0191 34 VP1011 38 XX310BD 27 XXTB0673C 36 AT030 20 MF3575 53 GS1085 12 MF0191 34 VP1011 38 XX310BD 27 XXTB0505BD 27 XTB0505BD	AT0003	16	CS5020	48	GN9610100	13	MC033B	44	VP009	44	XX1538	34	XX7000	36
ATO110 17 CS7306 38 GN9625100 13 MF46114WH 41 VP0390 44 XX3052BD 27 XXTB0326B 40 ATO120 17 CS7307 38 GN9630100 13 MF4692WH 41 VP1006 45 XX3101BD 27 XXTB0326B 40 ATO130 17 FH0315 53 GP3065100 12 MF6192WH 41 VP1009 45 XX3101BD 27 XXTB0326P 40 ATO140 17 FH0371 53 GP3070100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 ATO150 17 FH0555 53 GP3075100 12 MF06114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 ATO150 17 FH0555 53 GP3080100 12 MF0003 42 VP1016 45 XX3103BD 27 XXTB0326P 40 ATO140 20 FH0595 53 GP3080100 12 PB0190 34 VP1024 45 XX3103BD 27 XXTB0312P 40 ATO140 20 FH3375 53 GP3085100 12 PB0191 34 VP1024 45 XX3105BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0192 34 WL6259 77 XX3105BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1060 12 PB0195 34 WN6712 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1060 12 PB0195 34 WN6712 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3575 53 GS1060 12 PB0196 34 WN6712 7 XX3110BD 27 XXTB0370 36 ATO150 20 FH3575 53 GS1080 12 PB028 34 WN6712 7 XX3110BD 27 XXTB03670 36 ATO150 20 FH35897 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB03670 36 ATO150 20 FH35897 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB03605BD 27 ATO150 20 FH35897 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB03605BD 27 ATO150 20 FH35897 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB03605BD 27 ATO150 20 FH35897 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB03605BD 27 ATO150 20 ATO150	AT0006	22	CS5025	48	GN9615100	13	MC034B	44	VP016	44	XX2312	40	XXST1005	30
ATO120 17 CS7307 38 GN9630100 13 MF4692WH 41 VP1006 45 XX3101BD 27 XXTB0326R 40 ATO130 17 FH0315 53 GP3065100 12 MF6192WH 41 VP1009 45 XX3101BD 27 XXTB0326F 40 ATO140 17 FH0371 53 GP3070100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326F 40 ATO150 17 FH0555 53 GP3075100 12 MP0003 42 VP1016 45 XX3103BD 27 XXTB0312B 40 ATO150 17 FH0555 53 GP3080100 12 PB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 ATO140 20 FH0595 53 GP3080100 12 PB0190 34 VP1024 45 XX3103BD 27 XXTB0312R 40 ATO140 20 FH25101 53 GP3080100 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312P 40 ATO140 20 FH25101 53 GP3080100 12 PB0192 34 W16259 7 XX3105BD 27 XXTB0312P 40 ATO140 20 FH25101 53 GP3080100 12 PB0192 34 W16259 7 XX3105BD 27 XXTB0312P 40 ATO140 20 FH25101 53 GP3080100 12 PB0195 34 W16709 7 XX3110BD 27 XXTB0312P 40 ATO140 20 FH3375 53 GS1065 12 PB0196 34 WN6709 7 XX3110BD 27 XXTB0477C 36 ATO150 20 FH3575 53 GS1080 12 PB0196 34 WP4657 38 XX3120BD 27 XXTB0477 36 ATO150 20 FH3597 53 GS1080 12 PB0196 34 WP4657 38 XX3120BD 27 XXTB0673C 36 ATO150 20 FH3597 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0673C 36 ATO150 20 FH3595 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0505BD 27 AT5240 18 FH4235 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0505BD 27 AT5240 18 FH4335 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0505BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0006 22 XX3150BD 27 XXTB0505BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0505BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0505BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0510BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0510BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0510BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0510BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0510BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD 27 XXTB0510BD 27 AT5240 18 FH3581 53 GU1065 13 PB108 33 XX0120 17 XX3203BD	AT0010	24	CS7015	38	GN9620100	13	MF46114GY	41	VP024	44	XX2428	40	XXST1050	30
AT0130 17 FH0315 53 GP3065100 12 MF6192WH 41 VP1009 45 XX3101BDC 27 XXTB0326Y 40 AT0140 17 FH0371 53 GP3070100 12 MF66114B 41 VP1011 44 XX3101LS 27 XXTB0326P 40 AT0150 17 FH0555 53 GP3075100 12 MP0003 42 VP1016 45 XX3103BD 27 XXTB0312B 40 AT0140 20 FH0595 53 GP3080100 12 PB0190 34 VP1024 45 XX3103BD 27 XXTB0312R 40 AT0140 20 FH25101 53 GP3080100 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312P 40 AT1430 20 FH25101 53 GP3080100 12 PB0192 34 W16259 7 XX3105BDC 27 XXTB0312P 40 AT1440 20 FH3375 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 AT1450 20 FH3555 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0472C 36 AT1520 20 FH3575 53 GS1070 12 PB0195 34 WN6712 7 XX3110BDC 27 XXTB0477C 36 AT1520 20 FH3575 53 GS1080 12 PB0208 34 WP4657 38 XX3120BD 27 XXTB04773 36 AT1520 18 FH4335 53 GS1085 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0477 36 AT5220 18 FH4335 53 GS1085 12 PB0214 34 WP8011 38 XX3130BD 27 XXTB0505BD 27 AT5230 18 FH3581 53 GU1066 13 PB1008 33 XX0006 22 XX3130BD 27 XXTB30505BD 27 AT5240 18 FH5581 53 GU1060 13 PB1008 33 XX0006 22 XX3130BD 27 XXTB30505BD 27 AT5240 18 FH5581 53 GU1060 13 PB1008 33 XX0006 22 XX3130BD 27 XXTB30505BD 27 BD04R 45 FM0330 15 GU1070 13 PB1008 33 XX0100 17 XX3203BD 27 XXTB30505BD 27 BD04R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1080 13 PB306 40 XX0150 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1080 13 PB306 40 XX0150 17 XX3203BD 27 XXTB3051BD 27 BD06R 45 FM10181 15 GU1080 13 PB306 40 XX0150 17 XX3203BD 27 XXTB3051BD 27 XXTB3051B	AT0110	17	CS7306	38	GN9625100	13	MF46114WH	41	VP0390	44	XX3052BD	27	XXTB0326B	40
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AT0150 17 FH0555 53 GP3075100 12 MP0003 42 VP1016 45 XX3103BD 27 XXTB0312B 40 AT1410 20 FH0595 53 GP3080100 12 PB0190 34 VP1024 45 XX3103BD 27 XXTB0312B 40 AT1420 20 FH1551 53 GP3085100 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312P 40 AT1430 20 FH3375 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0312P 40 AT1440 20 FH3375 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0472C 36 AT1450 20 FH3575 53 GS1070 12 PB0195 34 WN6712 7 XX3110BD 27 XXTB0477 36 AT1520 20 FH3575 53 GS1070 12 PB0196 34 WP4657 38 XX3120BD 27 XXTB0477 36 AT1520 20 FH3597 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0477 36 AT1520 18 FH4235 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0477 36 AT5220 18 FH4235 53 GS1085 12 PB0214 34 WP8001 38 XX3130BD 27 XXTB0507BD 27 AT5230 18 FH4335 53 GS1080 12 PB0214 34 WP8101 38 XX3130BD 27 XXTB3050BD 27 XTB30505BD 27 AT5240 18 FH5581 53 GU1060 13 PB108 33 XX0006 22 XX3130BD 27 XXTB30505BD 27 XX	AT0130	17	FH0315	53	GP3065100	12	MF6192WH	41	VPI009	45	XX3101BDC	27	XXTB0326Y	40
AT1410 20 FH0595 53 GP3080100 12 PB0190 34 VP1024 45 XX3103BDC 27 XXTB0312R 40 AT1420 20 FH1551 53 GP3085100 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312P 40 AT1430 20 FH3575 53 GS1065 12 PB0192 34 WN6709 7 XX3110BD 27 XXTB0472C 36 AT1450 20 FH3575 53 GS1070 12 PB0195 34 WN6709 7 XX3110BD 27 XXTB0472C 36 AT1450 20 FH3575 53 GS1070 12 PB0195 34 WN6712 7 XX3110BDC 27 XXTB0472C 36 AT1520 20 FH3575 53 GS1075 12 PB0196 34 WP4657 38 XX3120BD 27 XXTB0472C 36 AT1520 20 FH3597 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB0673C 36 AT1520 18 FH4235 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB0673C 36 AT1520 18 FH4235 53 GS1080 12 PB028 34 WP8001 38 XX3120BD 27 XXTB057DD 27 AT5230 18 FH3581 53 GS1080 12 PB028 34 WP8101 38 XX3130BD 27 XXTB0505BD 27 AT5240 18 FH5581 53 GS1080 12 PB028 34 WP8101 38 XX310BD 27 XXTB0505BD 27 AT5240 18 FH5581 53 GU1060 13 PB1008 33 XX0006 22 XX3130BD 27 XXTB0505BD 27 AT5240 18 FH5581 53 GU1065 13 PB128 33 XX0110 17 XX3203BD 27 XXTB30505BD 27 BP048 45 FM0330 15 GU1070 13 PB120 33 XX0120 17 XX3203BD 27 XXTB30510BD 27 BP048 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3050BD 27 BP046R 45 FM10181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3050BD 27 BP046R 45 FM121297 14 GU1085 13 PB360 33 XX0140 17 XX3205BD 27 XXTB3150BD 27 BP046R 45 FM121297 14 GU1085 13 PB360 33 XX0140 17 XX3205BD 27 XXTB3150BD 27 BP046R 45 FM121297 14 GU1085 13 PB360 33 XX0140 17 XX3205BD 27 XXTB3150BD 27 BP046R 45 FM121297 14 GU1085 13 PP0366R 40 XX0150 17 XX3205BD 27 XXTB3150BD 27 BP046R 45 FM3405 15 GU1070 13 PP0366R 40 XX0150 17 XX3205BD 27 XXTB3150BD 27 BP046R 45 FM3405 15 GU1090 13 PP0366R 40 XX0326R 40 XX3220BD 27 XXTB3150BD 27 BP046R 45 FM3405 15 GU1090 13 PP0366R 40 XX0326R 40 XX3220BD 27 XXTB3150BD 27 BP046R 45 GU108-50 11 GU2065 13 PP0366P 40 XX0326R 40 XX3220BD 27 XXTB3150BD 27 XXTB3150BD 27 BP046R 45 GU108-50 11 GU2065 13 PP0366P 40 XX0326R 40 XX3220BD 27 XXTB3150BD	AT0140	17	FH0371	53	GP3070100	12	MF66114B	41	VPI011	44	XX3101LS	27	XXTB0326P	40
AT1420 20 FH3551 53 GP3085100 12 PB0191 34 VPM011 44 XX3105BD 27 XXTB0312Y 40 AT1430 20 FH3575 53 GS1065 12 PB0192 34 W16259 7 XX3110BD 27 XXTB0312P 40 AT1450 20 FH3575 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0472C 36 AT1520 20 FH3575 53 GS1070 12 PB0195 34 WN6712 7 XX3110BD 27 XXTB0477 36 AT1520 20 FH3575 53 GS1075 12 PB0196 34 WP4657 38 XX3120BD 27 XXTB0673C 36 AT1520 18 FH4235 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0673C 36 AT5220 18 FH4335 53 GS1085 12 PB0214 34 WP8101 38 XX3130BD 27 XXTB0677 36 AT5220 18 FH4335 53 GS1085 12 PB0214 34 WP8101 38 XX3130BD 27 XXTB0677 36 AT5240 18 FH5581 53 GU1060 13 PB1008 33 XX0006 22 XX3130BD 27 XXTB30505BD 27 AT5240 18 FH5581 53 GU1060 13 PB1008 33 XX0068 22 XX3150BD 27 XXTB30505BD 27 AT5240 18 FH5581 53 GU1065 13 PB1218 33 XX0110 17 XX3150BD 27 XXTB30505BD 27 AT5240 45 FM0330 15 GU1070 13 PB1220 33 XX0110 17 XX3203BD 27 XXTB30510BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0120 17 XX3203BD 27 XXTB30510BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB30510BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB30510BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3130BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3130BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3130BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3130BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3130BD 27 AT5240 45 FM101181 15 GU1075 13 PB2012 34 XX0130 17 XX3203BD 27 XXTB3130BD 27 AT5240 45 FM101181 15 GU1075 13 PD0368 40 XX0150 17 XX3203BD 27 XXTB3130BD 27 XXTB3130	AT0150	17	FH0555	53	GP3075100	12	MP0003	42	VPI016	45	XX3103BD	27	XXTB0312B	40
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AT1440 20 FH3375 53 GS1065 12 PB0194 34 WN6709 7 XX3110BD 27 XXTB0472C 36 AT1450 20 FH3555 53 GS1070 12 PB0195 34 WN6712 7 XX3110BD 27 XXTB0472C 36 AT1520 20 FH3575 53 GS1075 12 PB0196 34 WP4657 38 XX3120BD 27 XXTB0473C 36 AT1530 20 FH3597 53 GS1080 12 PB0208 34 WP8001 38 XX3120BD 27 XXTB0673C 36 AT522O 18 FH4235 53 GS1085 12 PB0214 34 WP8101 38 XX3130BD 27 XXTB0573C 36 AT523O 18 FH4335 53 GS1080 12 PB0810 33 XX0006 22 XX3130BD 27 XXTB30501BD 27 AT524O 18 FH5581 53 GU1060 13 PB1008 33 XX0068 22 XX3150BD 27 XXTB30505BD 27 BD3050AMB 27 FH8555 53 GU1065 13 PB1218 33 XX0110 17 XX3150BDC 27 XXTB30510BD 27 BP004R 45 FM033O 15 GU1070 13 PB122O 33 XX012O 17 XX3203BD 27 XXTB30510BD 27 BP016R 45 FM121286 14 GU1080 13 PB810O 33 XX014O 17 XX3203BD 27 XXTB3130BD 27 BP016R 45 FM121287 14 GU1080 13 PP0326R 40 XX015O 17 XX3205BDC 27 XXTB3150BD 27 BP027R 45 FM3405 15 GU109O 13 PP0326R 40 XX0326R 40 XX3220BD 27 XXTB3050 BP0 8 BP040R 45 GL1065-50 11 GU2065 13 PP0326P 40 XX0326R 40 XX3220BD 27 XXTB3050 BP0 8 BP040R 45 GL1065-50 11 GU2065 13 PP0326P 40 XX0326R 40 XX3220BD 27 XXTB3150BD 27 XXTB690O 8	AT1420	20	FH1551	53	GP3085100	12	PB0191	34	VPM011	44	XX3105BD	27	XXTB0312Y	40
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BPI004 45 GL1065-50 11 GU2065 13 PP0326P 40 XX0326Y 40 XX3230BD 27 XXTB6900 8	BP027R	45	FM3405	15	GU1090	13	PP0326R	40	XX0326B	40	XX3220BD	27	XXTB6307	6
	BP040R	45	GL1060-50	11	GU2060	13	PP0326Y	40	XX0326R	40	XX3220BDC	27	XXTB6725	6
BPI006 45 GL1070-50 11 GU2075 13 PP0312B 40 XX0326P 40 XX3250BD 27 ZC0391 44	BPI004	45	GL1065-50	11	GU2065	13	PP0326P	40	XX0326Y	40	XX3230BD	27	XXTB6900	8
	BPI006	45	GL1070-50	11	GU2075	13	PP0312B	40	XX0326P	40	XX3250BD	27	ZC0391	44
BPI011 45 GL1075-50 11 GU2085 13 PP0312R 40 XX0312B 40 XX3250BDC 27	BPI011	45	GL1075-50	11	GU2085	13	PP0312R	40	XX0312B	40	XX3250BDC	27		

Notes

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45 GL1080-50

11 GU2090

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