



**WE PROTECT LIFE'S MOST PRECIOUS CARGO**



# WE PROTECT LIFE'S MOST PRECIOUS CARGO

We're experts in the design and manufacture of compliant sample transport and temperature-controlled packaging.

Whatever your payload, we pride ourselves on working closely with you to find the perfect solution to your sample transport, or cold chain shipping needs.



## OUR GREEN MISSION

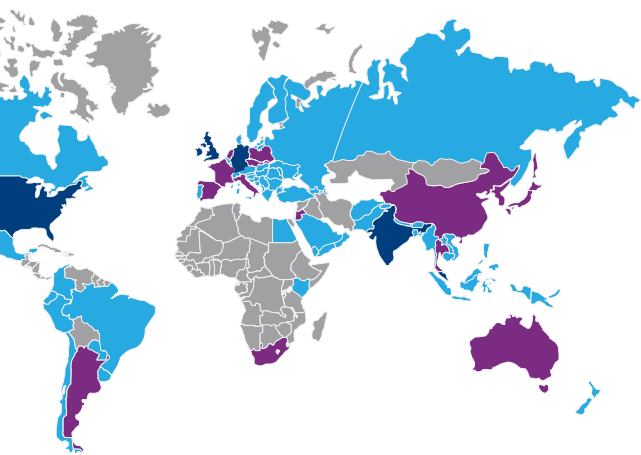
We take our responsibility to the environment seriously. In real terms, this responsibility impacts the way we design and develop our products, the materials we use, our commitment to recycling, and the partnerships we form with environmentally driven charity organisations.

But we can't stop there. That's why we'll continue to strive towards even greener packaging, working practices, and together with partners, positively contributing to our natural world with donations and awareness raising. Discover more on page 4.



[INTELSIUS.COM](https://www.intelsius.com)

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## TEMPERATURE CONTROLLED

For reliable temperature control, see pages 6-9



## SAMPLE TRANSPORT

For compliant packaging made simple, see pages 10 -13



## SERVICES

For more than just packaging solutions, see pages 14 -17

## MORE THAN JUST A BOX

With over 20 years' experience designing and manufacturing a range of sample transport and temperature-controlled packaging solutions, we offer more than off the shelf packaging solutions.

We can work with you on end-to-end packaging solutions, designed to meet the specific demands of your sample transport, or cold chain shipping needs. When you partner with Intelsius, you get so much more than just a box.

### EXPERTISE AND SUPPORT

We're experts in the design and manufacture of sample transport and temperature-controlled packaging solutions. Having supplied millions of packaging solutions for a vast array of payloads, we pride ourselves on supporting you with compliance and technical queries to ensure your payload reaches its destination safely.

### TECHNICAL SERVICES

Our expert Technical Team can provide a range of testing and design services to support you with packaging qualification, thermal testing and certification. Discover more on page 16-17.

### FLEXIBLE PURCHASING OPTIONS

Whether you need a packaging solution for the short term, or you simply want to try out packaging before you commit to a large order, our recently launched ORCA Fulfilment Services gives you access to the very best in pre-conditioned packaging solutions for short rental periods. Discover more on page 14-15.

### COLLABORATION AND BESPOKE NEEDS

This brochure contains basic information about our off the shelf packaging solutions, but we relish the opportunity to work closely with you providing bespoke solutions to problems within your supply chain.

Whether you are transporting pharmaceuticals, clinical samples, medicines, blood, or lifesaving vaccines we take the time to understand your requirements and provide a solution that works for your payload.

To find out how we can support you, get in touch by emailing [compliance@intelsius.com](mailto:compliance@intelsius.com)

## OUR GREEN MISSION

We take our responsibility to the environment seriously. In real terms, this responsibility impacts the way we design and develop our products, the materials we use, our commitment to recycling, and the partnerships we form with environmentally driven charity organisations.

But we can't stop there. That's why we'll continue to strive towards even greener packaging, working practices, and together with partners, positively contributing to our natural world with donations and awareness raising.

### GREEN DESIGN

Through sustainable design, and ATMOS virtual testing technology, we reduce the amount of packaging required for each solution. One of the ways we do this is by reducing volumetric weight, equalling cost benefit to you, the customer, and minimising transport requirements.



### GREEN SOLUTIONS

Creating sustainable packaging, and operating sustainable working environments is at the very core of our commitment to becoming a truly green, environmentally friendly business. As a result, Intelsius recycles 100% of its waste cardboard. We also operate refurbishment, fulfilment and rental services that allow our solutions to be used again and again, significantly reducing waste.



### GREEN PARTNERSHIPS


We're fortunate to partner with the inspirational marine wildlife preservation charity, ORCA, and tree planting charity, One Tree Planted. Partnering with these great charities gives us a chance to give back and help actively protect the world around us.








## ORCA RESPONSE

ORCA Response is a highly portable, multi-use temperature-controlled packaging solution designed to be easily transported by hand. ORCA Response keeps transport costs low and is optimised for difficult last mile delivery.

 2 °C - 8 °C  
15 °C - 25 °C  
-15 °C - -25 °C


 60 Hours  
Temperature  
Control


 Payloads  
1L - 2L


 Ideal For Blood  
Transportation  
and Personalised  
Medicine Delivery


## ORCA MULTI-USE

ORCA Multi-Use is a range of high-performance, reusable, temperature-controlled packaging solutions that lessen your carbon footprint and decrease costs. These sustainable solutions use an innovative design, ensuring your product reaches its destination with maximum efficacy.

 2 °C - 8 °C  
15 °C - 25 °C  
-15 °C - -25 °C  
Dry Ice

 Payloads  
4L - 50L

 96 Hours  
Temperature  
Control

 Durable  
Components For  
Long-Life



## ORDER ONLINE



Temperature-controlled packaging solutions can be ordered in just a couple of clicks. Discover our online store at [Intelsius.com](https://www.intelsius.com).

## HIGH PERFORMANCE

All ORCA solutions are capable of long-lasting temperature control. This is achieved by combining phase change materials (PCM) with vacuum insulated panels (VIPS).

Qualified against challenging ISTA temperature profiles, ORCA solutions can achieve temperature control for up to 144 hours, minimising the risk of costly temperature excursion.



## ORCA CONNECT

ORCA Connect combines high-performance, passive temperature-controlled packaging, with a flexible, open platform concept allowing for a variety of data loggers, ensuring real-time tracking of your payloads anywhere in the cold chain.



2 °C - 8 °C  
15 °C - 25 °C  
-15 °C - -25 °C  
Dry Ice



Payloads  
4L - 50L



96 Hours  
Temperature  
Control



Maintain Payload  
Visibility

## ORCA SINGLE-USE

ORCA Single-Use is a high-performance range of single use passive temperature-controlled packaging solutions that provides superior thermal protection. Made using a high proportion of readily recyclable materials, ORCA Single-Use offers a cost effective and environmentally responsible solution for one-way cold chain logistics.



2 °C - 8 °C  
15 °C - 25 °C  
-15 °C - -25 °C  
Dry Ice



Payloads  
4L - 50L



96 Hours  
Temperature  
Control



Widely  
Recyclable  
Components



## TRUSTED FOR THE DELIVERY OF COVID-19 VACCINES

ORCA solutions have been critical during the delivery of COVID-19 vaccinations. Offering temperature control across all major vaccination requirements, ORCA solutions have safely delivered millions of vaccines around the globe.

## FLEXIBLE TO YOUR COLD CHAIN

ORCA Solutions can be delivered pre-conditioned and ready to use or can be delivered with phase change material packaged separately ready to be conditioned when required.

ORCA Multi-Use and ORCA Connect solutions can also be rented for ten-day periods, saving you costs on intermittent temperature-controlled shipping and reducing packaging waste from your cold chain. For more information on ORCA Fulfilment please see page 13.



## PHARMATHERM

Our PharmaTherm range of insulated shipping systems are designed to offer optimal thermal protection for pharmaceutical products. These shipping systems are pre-qualified to maintain payload integrity during shipments for up to 120+ hours. They are tested against Intelsius' demanding high-performance dry ice temperature, 2-8°C profiles and 15-25°C profiles.



2 °C - 8 °C  
15 °C - 25 °C  
Dry Ice



Up to 120 Hours  
Temperature  
Control



Payloads  
2L - 84L

## PHARMATHERM PALLET

PharmaTherm Pallet shipping systems are designed to offer optimal thermal protection for pharmaceutical products. These shipping systems are pre-qualified to maintain payload integrity for up to 96 hours.



2 °C - 8 °C  
15 °C - 25 °C  
Dry Ice



Up to 120 Hours  
Temperature  
Control



Payloads  
115L - 450L

## THERMOTREK

ThermoTrek is a discreet personal carry case for the movement of a patient's temperature-sensitive medications. Qualified for 48 hours, its unique design and technology create an easy-to-use solution. This enables patients to maintain the thermal integrity of their medication even after it has been delivered. Utilising a ThermoCline Technology, dual temperature cool pack with an innovative one-way fit, the ThermoTrek is easy to use.



2 °C - 8 °C  
15 °C - 25 °C



48 Hours  
Temperature  
Control



Payloads  
1L - 2L



# READY TO USE TEMPERATURE CONTROL DELIVERED TO YOUR DOOR

Designed to simplify your cold chain logistics, our Fulfilment Services make the conditioning process of packing solutions simple and easy.

Our expert Technical Team ensure all packaging solutions are perfectly conditioned and quickly despatched to provide maximum protection for your payloads, when and where required.

This helps you:

- Reduce stock holding and space requirements required for conditioning.
- Benefit from expert conditioning in state-of-the-art fridges and freezers.
- Reduce your conditioning costs



## TEMPERATURE CONTROL TERMINOLOGY

**Conditioning** - The preparation process for PCM materials required in a specific phase before use within a system.

**Cool pack** - Typically, a semi-rigid sealed pouch of material, usually water based, for use a PCM within systems. Can be used generically for any sealed PCM system component.

**EPS** - Expanded Polystyrene, moulded or sheet insulation material.

**Passive** - In the temperature-controlled packaging sector, “Passive” packaging refers to solutions that operate without an electrical supply providing heating or cooling. Instead, passive solutions use insulation and thermal media to ensure temperature control is achieved.

**Phase Change Material/PCM** - A material which is intended to change physical phase (melt/freeze/sublime) at a specific temperature thereby providing thermal stability.

**Temperature excursion/deviation** - A situation where the payload temperature falls outside the desired temperature range.

**Temperature Profile** - Temperature profiles are comprised of a temperature-based data points that can be cycled through when testing temperature-controlled packaging.

**VIP** - Vacuum Insulation Panel, high performance sheet insulation material.



## PATHOSHIELD

The PathoShield range are complete shipping solutions designed to carry a wide range of primaries, including blood vials, swabs and sample containers.

Each system is pre-printed with the required markings and includes the relevant components to ship samples in compliance with transport regulations. PathoShield solutions are ideal when transporting samples for COVID-19 testing and analysis.

## PATHOSEAL

The PathoSeal 95 range is designed and tested to withstand a pressure difference of 95 kPa to meet UN3373 Biological Substance, Category B regulations.

This range of flexible secondary packaging is ideal for the transportation of a variety of primary containers such as blood vials, swabs (including COVID-19 test swabs), blood collection bags and medical devices.



## ADAPTABLE FOR YOUR SAMPLE

Over the past twenty years we have provided solutions for the safe and compliant delivery of a vast array of samples. Whether you're collecting or shipping blood, urine or tissue samples, from one or 100 sites, Intelsius' varied product range of sample transport solutions has the answer.

Our varied selection of products and consumables mean you can create a highly customised solution to help get your samples safely from A to B.

## ORDER ONLINE

Our sample transport solutions can be ordered online in just a couple of clicks.

Discover more about the solutions and order at [Intelsius.com](https://Intelsius.com).



## PATHOPAK

The Intelsius PathoPak range is selected for several reasons. UN certified for Category A shipments meeting IATA, ADR, and CFR 49 (DOT) transport regulations, a PathoPak ensures optimal protection for your sample regardless of the specimen classification. PathoPak solutions are ideal when transporting samples for COVID-19 testing and analysis.



## PATHOPOUCH

The Intelsius PathoPouch range are 95kPa flexible pressure vessels designed to meet with transport regulations (independently tested by BVI - an ISO17025 accredited laboratory). They are leak-proof and suitable to hold a wide range of primary containers, such as blood vials, specimen containers, swabs, blood collection bags and medical devices.



## COVID-19 TESTING SOLUTIONS

We are proud to have supported global COVID-19 testing schemes having supplied millions of UN3373 Category B sample transport solutions to safe collect and transport suspected COVID-19 samples for testing and analysis.

## COMPLIANCE MADE SIMPLE

If you're transporting goods that could cause harm to humans or animals, it's imperative that you follow the United Nations' guidelines on transporting infectious substances. Failing to do so could cause significant danger to animal or human life, putting your reputation and bottom line at risk.

We strive to make compliance as simple as possible and offer support at every stage to help you through the process and find the correct solution for your requirements.



## BIO THERM

Intelsius BioTherm packaging systems ensure that users are fully compliant to IATA, ADR, and 49 CFR (DOT) transport regulations. These shipping systems can be built for category A or B compliance and are pre-qualified to maintain sample integrity during shipments for up to 240 hours against Intelsius' demanding high-performance dry ice temperature, 2-8°C and 15-25°C profiles.



## ORCA SAMPLE TRANSPORT

ORCA Sample Transport combines ORCA single and multi-use temperature-controlled overpack systems with PathoPak sample transport packaging to give you a complete shipping solution for temperature sensitive samples.

Fully compliant for shipping 2900, UN2814 Category A Infectious Materials, and UN3373 Biological Substances, ORCA Sample Transport utilises the same vacuum insulated panel and phase change material technology as the wider ORCA range, giving you temperature control in even the most extreme shipping lanes.



## BIOMAILER

The Intelsius BioMailer is designed for shipping small specimens, such as blood vials and slides within national and global postal networks. The rigid plastic case ensures that samples are protected during transit and allows the system to be refurbished and used again, offering both a cost saving and environmental benefit.



## BIOSHIELD

The Intelsius BioShield range are unique patented systems designed to meet handling processes from sample extraction to laboratory presentation. BioShields are a highly protective single-use shipping solution which are available for a variety of sample capacities, helping to reduce waste and cut costs associated with sample transportation.



## COMPLIANCE JARGON

**UN2814** - UN Dangerous Goods number Infectious Substance (humans) Category A\*

**UN3373** - UN Dangerous Goods number Biological Substance, category B\*

**95kPa** - 95 Kilo Pascals, a value of pressure, defined in the regulations, that a container must remain leakproof when withstanding.

**ADR** - European agreement concerning the international carriage of dangerous goods by road, dangerous goods regulations.

**Category A** - UN Dangerous Goods classification for infectious substances\*.

**Category B** - UN Dangerous Goods classification for biological substances\*.

**Label compliance** - Labels indicating that packaging is fully compliant in accordance with various transport and government regulations.

**Secondary** - The second layer of protection around a sample that is being transported.

# ORCA FULFILMENT

## RENTAL PACKAGING SOLUTIONS CUSTOMISED FOR YOUR COLD CHAIN REQUIREMENTS

ORCA Fulfilment gives you access to the very best in temperature-controlled packaging when you need it.

Solutions are available to be rented and fulfilled directly from Intelsius, simplifying your cold chain logistics.

All our ORCA Multi-Use solutions can be fulfilled and rented as part of the service with rental periods fixed at ten days.

## WHY USE ORCA FULFILMENT

Trusted and quality temperature-controlled packaging is exceptionally important at this time, with vaccines, pharmaceuticals, and biologics all requiring protection throughout the shipping process. ORCA Fulfilment gives you the opportunity to use the very best in temperature-controlled packaging in a way suited to your cold chain processes.

- Increase flexibility to react to changes in demand
- Reduce stock holding requirements
- Only pay for the packaging required
- Utilise Intelsius expertise in preparation and conditioning



## TREE PLANTING PROMISE

We are serious about real environmental change. By renting reusable ORCA systems you are helping us to achieve a greener future. To further support a greener future Intelsius will work in partnership with One Tree Planted to fund the planting of a new tree for every ORCA solution rented until 2021.

For further details on our tree planting initiative please visit our website.





## HOW IT WORKS

Build the solution best suited to your needs with ORCA Fulfilment.

Simply select options from the below variables to create your perfect ORCA rental solution.

Rental orders can be made online in our web store or by contacting our customer services team at [compliance@intelsius.com](mailto:compliance@intelsius.com).

**Temperature:** ORCA rental systems are available in four temperature ranges: 2-8°C, 15-25°C, and -20°C PCM models, and a solution using dry ice to achieve -70°C temperature control. All solutions provide a minimum of 96 hours performance within these temperature parameters.

**Size:** ORCA solutions are available in four sizes: 4L, 11L, 23L, and 50L. For full dimensions and payload volumes please consult the ORCA Product Sheets.

**Pre-Conditioning:** To ensure optimum product performance rental products can be pre-conditioned in the Intelsius ISTA certified laboratory by our expert Technical Team. All pre-conditioned solutions are supplied fully assembled and ready to accept your payload on delivery.

**Delivery Legs:** Intelsius can arrange transportation of the solution to an onward shipping address ensuring your payload gets where to its destination safely. Please contact us to discuss second leg delivery options.

At Intelsius we offer a range of market leading technical services tailored to design, develop and qualify custom solutions to meet your needs. Our services are centred around four key areas: thermal testing, virtual testing, physical testing, and product development but we have helped customers across the life sciences sector protect their most precious cargo.

Get in touch now to discuss how we can best support your packaging, technical and compliance requirements.

## THERMAL TESTING SERVICES

Work with us to quickly qualify temperature-controlled packaging solutions. Our thermal testing services are carried out in our ISTA-certified testing laboratory using specialised equipment, operated by highly knowledgeable laboratory personnel.



We offer testing against a variety of industry standard test procedures providing full reports and project management throughout the testing services making the entire process as easy as possible.

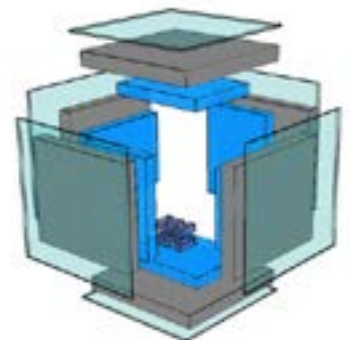
## VIRTUAL TESTING SERVICES

If you need packaging tested quickly at a reduced cost our virtual testing services can support your testing requirements. Our Virtual Testing Services are a variety of simulation calculations that use advanced software tools to create and analyse datasets which allows for comprehensive performance data analysis and reporting. Our Virtual testing Services are referred to as Intelsius ATMOS solutions.



ATMOS Packaging creates digital versions of thermal packaging solutions and enables their thermal performance to be predicted against any ambient temperature profile in a fraction of the time required for physical testing a climatic test chamber.

ATMOS Lane utilises real-world temperature data, allowing us to predict the performance of a shipment before it's been sent. Using historical data collected from weather stations worldwide, systems can be tested against the actual exposure temperatures experienced on a lane on any particular day of the year. This can be repeated for as many days, months or years as required.



By combining these two ATMOS tools you can calculate and predict how packaging will perform in any chosen shipping lane at a fraction of the cost compared against traditional thermal testing.





## PRODUCT DEVELOPMENT SERVICES

Product development services offer you the opportunity to develop solutions to meet your specific requirements, as well as access to our thermal, virtual and physical testing team. Whether it's increasing brand awareness with custom branding, adaptation of off-the-shelf Intelsius products, or the development of complete qualified packaging solutions, Intelsius' product design engineers and scientists can find the best solution to meet your budget needs.

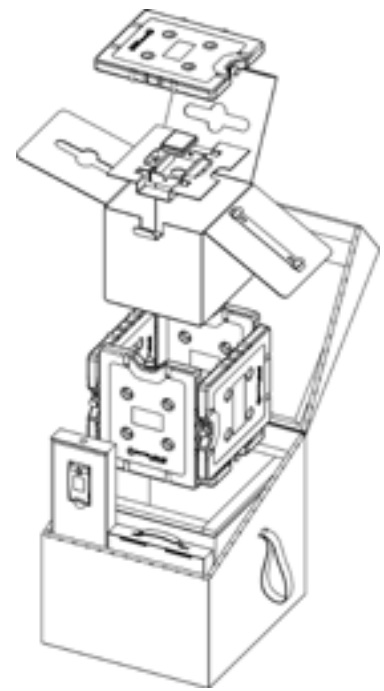
Benefits of using Intelsius Packaging Development Services;

- Services range from custom branding of our standard products to fully tailored solutions
- Access to full design, testing and project management team noted for design innovation within Sample Transport and Temperature Controlled Packaging markets
- Access to a wide range of off the shelf components which can be tailored to your requirements
- Global supply possible through our other sites and distributors

## PHYSICAL TESTING SERVICES

Physical testing services are carried out in our ISTA-certified testing laboratory.

We offer a variety of drop and pressure test procedures to demonstrate how your packaging will perform in real world scenarios, as well as meet the necessary regulatory requirements.





**■ Intelsius Site**

**■ Intelsius Distributor**

## CONTACT YOUR LOCAL SITE

## OUR OFFICES

**U.K - Head Office:** DGP Intelsius Ltd  
1 Harrier Court, Airfield Business Park,  
Elvington, York, YO41 4EA,  
United Kingdom

t: +44 (0) 1904 607 390  
f: +44 (0) 1904 607 391  
cs@intelsius.com

**AMERICAS:** DGP Intelsius LLC  
1399 S. Perry Rd  
Suite 190, Plainfield  
IN 46168, United States

t: +1 317 452 4006  
f: +1 317 290 4621  
americasorders@intelsius.com

**ASIA:** DGP Intelsius Sdn Bhd  
Plot 11, Lorong Bemban 2, Estet  
Perindustrian Bemban, 31000  
Batu Gajah, Malaysia

t: +605 3666 399  
f: +605 3669 399  
compliance@intelsius.com

**GERMANY:** DGP Intelsius GmbH  
Eulerweg 11,  
64291 Darmstadt  
Germany

t: +49 6151 4936650  
f: +49 (0) 6151 4936651  
info@intelsius.de

**IRELAND:** DGP Intelsius Ireland Ltd.  
Unit 8. Coolcaslagh Industrial Estate,  
Coolcaslagh, Killarney  
Co. Kerry, V93 K006, Ireland

t: +353 (0) 26 45699  
salesireland@intelsius.com

**INDIA:** DGP Intelsius Cold Chain Pvt. Ltd.  
Sun Srishti, C 10, Saki Vihar Road,  
Chandivali, Powai. Mumbai - 400072  
Maharashtra - India

t: 91 22 49746536  
compliance@intelsius.com

## OUR DISTRIBUTORS

**SPAIN:** Pharmacold  
C/Mar Egeo, 1 28830,  
San Fernando de Henares, Madrid

t: +34 913 43 99 86  
cs@intelsius.com

**NETHERLANDS:** CarePack Holland BV  
Douglassingel 25,  
1119 MC Schiphol-Rijk,  
Netherlands

t: 44 1904 607 390  
Info@carepack.nl  
www.carepack.nl/

**SOUTH AFRICA:** Laboratory Specialist  
Services  
P.O.Box 2427

Clareinch  
7740 South Africa  
t: +27 21 712 3514  
compliance@intelsius.com

**JAPAN:** Cosmo Bio  
Toyo Ekimae Building,  
2-20, Toyo 2-Chome, Koto-ku,  
Tokyo 135-0016, Japan

t: +81-3-5632-9600  
myaginum@cosmobio.co.jp

**JORDAN:** Naratech Pharmaceutical  
Consultancy  
Mecca Street Al-Rabee' Complex  
Building No.170, Amman, Jordan

t: +971 7 2077228  
info@naratech.net

**AUSTRALIA:** Vivstan  
Packaging Industries Pty Ltd.  
2A Victor Ave, Kew VIC 3101

t: +61 41 950 6754  
compliance@intelsius.com