



## Shipping Biologics: Maximized Safety With Minimized Costs

Facing continual challenges with passive Temperature Control Packaging (TCP) systems which were not performing as required, one leading global biopharmaceutical company needed to find a solution for transporting large quantities of biologics and immunotherapies – and one that could surmount a number of logistical challenges.

Citing the need for compliance across different temperature brackets, reliability and global availability, they turned to CSafe.

Renowned for their product performance across a comprehensive range of TCP solutions, an international production and service network, and a highly experienced technical support team, CSafe was able to turn the tide. In the five years that followed, millions of medicinal therapies were able to reach their intended destinations on two continents – and in perfect condition for administration.

### The Opportunity

When shipping temperature-sensitive medicines around the planet, the considerations are many – particularly where biologics and immunotherapies are concerned. Next-generation biopharmaceutical products are derived from live entities such as cells and tissues and are acutely vulnerable to temperature fluctuations.

Ensuring safe transit for these medical products throughout the cold chain distribution process requires high-performance pallet shippers and pallet-in-pallet shippers that may need to operate at chilled or frozen levels, often for extended periods of time.

In this particular case, the right solution would not only preserve the integrity of the biologics and immunotherapies concerned, but would also help to minimize the costs previously associated with shipment and wastage.

With such a comprehensive portfolio to its name, CSafe was able to recommend the Silverpod® range (which in itself caters for multiple requirements) as a solution that would answer every single stipulation for this global biopharma leader.

### The Breakthrough

To successfully ship palletized loads of temperature-sensitive medicines at three different ranges typically found in domestic and scientific freezers (0°C to +8°C, 0°C to +30°C and -20°C to +8°C), a best-in-class TCP system would be required. The award-winning CSafe Silverpod range provided the ideal solution, with Silverpod Quarter, Narrow Body Aircraft and Ambi-shield systems each utilized for their different sizes, weights, payload capacities and temperature stability offerings.

To cope with acute global climatic temperature variations that come with moving goods across continents, advanced packaging materials are used in these shippers, with vacuum insulation panels and phase-change materials that freeze and thaw within specific temperature ranges combining to great effect. Product temperature stability for these bulk loads could be maintained with confidence.

Add their recognized strength and durability to the mix, and Silverpod shippers will protect goods from potential damage in the handling process. Being pallet-based, they are also elevated from ground level, keeping cargo safe from wet or unfavourable conditions.



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**100,000**  
Silverpod pallet  
shippers and  
pallet-in-pallet  
shippers used



**3** different  
temperature ranges  
accounted for



**0** product losses

### The Pay-Off

Silverpod shippers are isothermal and will not only guarantee the integrity of next-generation, temperature-sensitive biopharmaceutical products, but will do so for up to 120 hours. These superior thermal performance levels have allowed the client to safely transport their biologics and immunotherapies between different continents for the last five years — without any losses.

This has been done while minimizing costs, Silverpod shippers are relatively lightweight by design, allowing space to be maximized thereby reducing financial outlay. They were also supplied flat-packed for cost-effective delivery and storage. Furthermore, their great portability enabled quick and efficient movement, keeping product excursions at bay while reducing labour handling requirements and costs.

The fact that Silverpod shippers are globally available via a network of strategically-located manufacturing facilities also helped with timely delivery.

With results surpassing expectations and new challenges arising, this client is now looking at qualifying new, passive, high-performance shippers to transport high-value, life-saving medicines that are currently being transported in active systems.



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Over a five-year period, the client's primary shipping goal has been consistently met: to eradicate product losses on millions of biologics and immunotherapies that needed shipping to two continents.

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