



BITO Thermal insulation set for  
**multi-purpose containers MB**



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# Temperature-controlled storage and shipping

The **BITO thermal insulation set** fits perfectly into BITO MB distribution containers and allows medicines and vaccines to be transported safely and securely at in-box temperatures between 2 and 8°C that are maintained for at least 12 hours. The set combines an impact resistant insert box from polystyrene, a Neopor foam inlay and three cold packs ICECATCH® Solid Insulated.



BITO Thermal insulation set in use at the hospital pharmacy Klinik-Apotheke Dresden

Shipping solution for logistics professionals in the pharmaceutical supply chain

- ✓ Ideal for handling temperature-sensitive medicines and vaccines
- ✓ The thermal insulation set maintains constant in-box temperatures.
- ✓ Perfect for last-mile vaccine deliveries
- ✓ Hygienic, easy to clean

# This BITO solution meets all material handling requirements of pharmaceutical wholesalers

Hygiene, safety and transparency are of utmost importance in hospitals and vaccination centres. The same care must be taken with medical product carriers used for distributing medicines and vaccines from pharmaceutical wholesalers to hospital pharmacies or between hospital departments.

In order to meet the manifold requirements of external and internal distribution logistics, BITO developed their robust multi-purpose container series **BITOBOX MB** which has been extremely successful in manufacturing and distribution environments of any industry. For use in the pharmaceutical sector, the MB series comes with an integrated thermal insulation set.

The **BITOBOX MB** is appropriate for storing, order picking as well as for transporting goods to in-house and to external destinations. This makes product handling very convenient, as there is no need to spend time and money on repackaging goods and reordering packaging materials. And last but not least, shorter order processing times help to streamline logistics. The MB container series comes in many sizes and with many equipment options to suit any application.



# Safe & reliable product shipping

The BITO thermal insulation set fits perfectly into **BITO MB multi-purpose containers**, allowing medicines and vaccines to be transported safely and securely at in-box temperatures between 2 and 8°C maintained for at least 12 hours. It combines an impact resistant insert box from polystyrene, a Neopor foam inlay and three cold packs ICECATCH® Solid Insulated.

Ideal for shipping temperature-sensitive products: pharmaceuticals, vaccines, etc.

Designed to minimise transport damage or product spoilage

Keeps a temperature range of 2-8°C for at least 12 hours

Safety approved by independent institutes Instructions for adaptation to summer and winter temperatures.\*

## 5-litre thermal insulation set 4327

- ✓ 5-litre capacity  
Interior dimensions L x W x H: 170 x 170 x 170 mm
- ✓ 3 cold packs  
(white; Icecatch® Solid Isolated)
- ✓ Insert box from PS  
(white, set can also be supplied without PS box)
- ✓ Insulating Neopor® foam inlay (grey)
- ✓ Suited for BITOBOX MMBBD43271  
Base dimensions L x W x H: 410 x 300 x 290 mm

## 17-litre thermal insulation set 6427

- ✓ 17-litre capacity  
Interior dimensions L x W x H: 360 x 260 x 160 mm
- ✓ 3 cold packs  
(white; Icecatch® Solid Isolated)
- ✓ Insert box from PS  
(white, set can also be supplied without PS box)
- ✓ Insulating Neopor® foam inlay (grey)
- ✓ Suited for MMBBD64271  
Base dimensions L x W x H: 610 x 400 x 290 mm

\* At a constant ambient temperature of 20°C, two cold packs are sufficient to maintain in-box temperatures between 2°C and 8°C.



## NEW: PCM hardshell cold packs

+2 TO +8 °C  
Keeps in-box tem-  
peratures for  
12 H

3 hardshell cold packs Icecatch® Solid Isolated Coating prevents cold packs from freezing to each other or to the contents.

Easy-to-clean insert box  
Resists temperatures of up to 60°C

Insulating Neopor® foam inlay

Perfectly adapted to multi-purpose containers

- MBD43271 (400x300x290 mm)
- MBD64271 (600x400x290 mm)

## Optional tracking accessories:

- Beacon
- Smarthub system



# Security seals provide additional safety for pharmaceutical shipments

## About the customer:

The Klinik-Apotheke of the Dresden University Hospital supplies 21 hospitals with their wards, operating theatres, outpatient departments, functional units and laboratories, 3 institutes and 8 interdisciplinary centres of the Carl Gustav Carus University Hospital at the Technical University of Dresden as well as approx. 15 institutes of the Medical Faculty. Some of the patients at the university hospital are cared for with the help of a unit-dose system.

Medications are individually formulated for each patient and delivered to the ward. This system is complemented by the activities of a pharmacist on the ward, who supports physicians and nursing staff in providing optimal care for patients.

## Customer requirements:

- Due to lack of space, the customer needed nestable containers to save on volume during empty handling.
- The sensitive and expensive products that are subject to the narcotics law must be protected from unauthorized access.
- The cold chain must not be interrupted in the case of articles requiring refrigeration.
- The containers had to be made of resistant material to withstand the large number of daily distribution cycles.
- Picking in the clinic pharmacy is done with a shopping basket or cart. Often, several orders are picked at the same time to increase efficiency. In addition, mesh-sided roll containers and conveyor technology are used. The distribution boxes therefore had to have good handling properties for transport on conveyors.
- Different box sizes were required, with the preferred size being 400 x 300 mm.





## THE BITO SOLUTION

- Nestable distribution containers **BITOBOX MB** are ideally suited for order picking as well as for space-saving empty storage. Fitted with a drop-on lid, the boxes can also be stacked.
- **Multi-purpose MB containers** can be fitted with a modular thermal insert which allows to create various temperature zones within one and the same container. Cold packs keep in-box temperatures at an even level. They can also be used to subdivide space within the box. The box inlays can be nested when not in use. Medicines and other items requiring refrigeration can therefore be transported in vehicles without temperature control.
- Tamper-evident, single-use security seals MBP 1 protect contents against unauthorized access. Two seals are required per container.
- For immediate identification, **BITOBOXes MB** are suited for imprinting logos or individual messages.
- **MB BITOBOXes** with double base stand out from competitor products for their smooth travel characteristics on conveyor systems, their dimensional stability and good cleaning properties. With only a minimal base deflection, MB containers are also suited for automated small parts storage (AS/RS) as well as for storing and transporting very heavy loads.

## Customer benefits

- MBs can be used as order picking and as shipping container - no repacking required.
- MBP 1 seals provide protection for pharmaceuticals and other products during shipment.
- Empty container nesting saves valuable space.
- MB containers are made from durable plastic for a long service life.
- **BITO MBs with a thermal insulation set** comply with Good Distribution Practice (GDP) standards to maintain the quality and integrity of medicines and other products that require cold storage.
- Imprinted corporate logos or messages enable immediate identification.



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