

Refrigerated Packaging Highlights



Cardinal Health provides a variety of innovative, qualified cold chain packaging to meet geographic, environmental and transportation needs.

Adaptable and Environmentally Friendly

Cardinal Health offers industry-leading, innovative technology for cold chain totes, air parcel coolers and bulk pallet shippers all specifically designed for the environment and transportation time requirements.

Our cold chain packaging keeps refrigerated product safe, maintaining a temperature of 2-8°C (36-46°F) regardless of the season or geography and regardless of the amount of product shipped, from a single vial to a full tote or bulk container.

The award-winning¹ tote program uses phase change panels that contain a USDA-registered, vegetable oil-based food product that is non-toxic, environmentally friendly and reusable. For more information about our cold chain tote program, visit cardinalhealth.com/coldchain to read "Refrigerated Tote Program Highlights" and watch the video "Introduction to Refrigerated Tote Packaging."

Qualification

Extensive scientific tests were performed using temperature profiles that meet regulatory requirements and exposed the packaging to varying summer heat and winter temperature conditions during shipment.

The qualification standard includes strict compliance to 2-8°C (36-46°F) without excursions. Cold chain packaging qualifications were conducted by an ISTA (International Safe Transit Association) certified environmental laboratory under strict Delivery System Shipment and American Society for Testing and Materials (test protocols). Design protocols and test standards follow the International Safety and Transit (ISTA) 7E: Testing Standard for Thermal Transport Packaging Used in Parcel ASTM D3103-07e1 (2008): Standard Test Method for Thermal Insulated Performance of Distribution Packages.²

Learn more and watch videos at cardinalhealth.com/coldchain

¹ Recognized by the Healthcare Distribution Management Association (HDMA) with the 2012 HDMA Distribution Management Award and selected by the Council of Supply Chain Management Professionals (CSCMP) 2012 Supply Chain Innovation Award (2nd Place)

² USP 32 General Notices and Requirements: 10.30.40. Controlled Cold Temperature (2009); Parenteral Drug Association's Technical Report No. 39 (revised 2007) Guidance for Temperature Controlled Medicinal Products: Maintaining the Quality of Temperature-Sensitive Medical Products through the Transportation Environment (2007); Parenteral Drug Association's Technical Report No. 46 Last Mile: Guidance for Good Distribution Practices for Pharmaceutical Products to the End Use; Center for Disease Control, Vaccine Storage & Handling Toolkit (2012); Sonoco ThermoSafe Brands, Scientific Standards for Ambient Temperature Profile Development: The creation of standard ambient temperature profiles for insulated package development and an analytical process for profile comparison (ISC Silver and Gold Temperature Profiles) (2011)

