



# TRANSPORT COOLING OF PHARMACEUTICALS

Extended & consistent cooling throughout shipment



During shipping, it is critical that pharmaceuticals be continuously stored in a limited temperature range – from the time they are manufactured until the moment of application.

Dry ice provides extended and consistent cooling throughout the cold chain cycle. It has significant cooling capabilities (-109.3 °F, -78.5 °C) and slowly sublimates back to gas, leaving no water or residue behind. This ensures that the product temperature will be maintained throughout the cold chain without being harmed by the cooling media.

Dry ice also provides greater flexibility and cheaper freight costs. Each shipment has unique cooling requirements based on the good being shipped, the type and size of packaging, and the length and duration of the trip. With dry ice, the exact amount, shape, or size of cooling media can be utilized in each parcel – with no unnecessary added weight.

In some instances, dry ice is the only real solution. Certain pharmaceuticals, such as vaccines, must be kept below sub-zero temperatures. Dry ice is the only solution to maintain the product temperature at this level.

## OUR SOLUTIONS

**As the global leader in dry ice, we have the expertise and the equipment to help.**

Our consultant based approach begins with a study of your unique application. Our team will determine the optimal quantity, shape, and size of dry ice needed in each parcel based on all shipment variables. By using the exact amount needed to maintain temperature, you will experience major savings on cooling media and freight.

Cold Jet offers multiple solutions that will enable you to cost-effectively produce the dry ice you need. Including dosing and metering systems that can be installed into an existing process and allow for the production of pre-programmed amounts of dry ice directly into packaging containers.

## KEY BENEFITS

- KEEPS ITEMS CONSISTENTLY COOLER FOR LONGER
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- INCREASED FLEXIBILITY
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- CHEAPER FREIGHT COSTS
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- SUBLIMATES WITHOUT LEAVING WATER OR RESIDUE
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- COLORLESS, TASTELESS, ODORLESS AND NON-TOXIC
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- ENVIRONMENTALLY FRIENDLY – NO WASTE

