

# Dry ice

If you wish to cool goods below freezing point, dry ice can be a solution. This extremely cold product has a temperature of no less than -78.5 degrees Celsius. One advantage of using dry ice is that no electricity is required to transport products below freezing point. Moreover, when evaporated, dry ice transforms into gas, leaving no traces like melting water. It is important that you use dry ice in combination with a box that permeates gas and is well-insulated. Examples of this are an EPS (tempex) box or EcoCoolBox.

Dry ice is carbon dioxide in its solid phase. The raw material for the production of dry ice is carbon dioxide in its liquid form. Dry ice resembles water ice but differs in crucial respects. For example, dry ice contains no water and is therefore 'dry' in substance. When switching from solid to liquid, water ice turns into water, while dry ice as a whole turns into gas.

You make the most of dry ice when you use it shortly after receiving it. Because dry ice sublimates (turns into a gas form), nothing will remain of it after a while, even if you leave the packaging unopened. With a 25 kg box you can count on a purchase of 4 kg after 24 hours. Depending on the season and the ambient temperature, this can be a little more or less.

## Applications

If you want to transport goods at a temperature below freezing, dry ice is a good option. Dry ice has a cooling capacity three times that of water ice. The maximum duration of a cooled transport depends on the amount of dry ice you add, together with various external conditions.

## Delivery

Dry ice is available in various standard sizes. Do you have specific wishes? Feel free to contact us for the possibilities.

Product	Available sizes
Dry ice diameter 3 mm, delivered in EPS box	Box of 5, 12, 20 or 25 kg
Dry ice diameter 9-10 mm, delivered in EPS box	Box of 5, 12, 20 or 25 kg
Dry ice diameter 16 mm, delivered in EPS box	Box of 5, 12, 20 or 25 kg



Pay attention when transporting by aeroplane: a maximum amount of dry ice is allowed here.

Dry ice can be used for various applications. It is particularly suitable for the refrigerated transport of, for example, pharmaceutical products and frozen food. Certain medicines and food have to arrive at their destination in a frozen state.



Would you like more information?  
We are happy to help.

De Ridder Packaging  
Industrieweg 11b  
1566 JN Assendelft  
The Netherlands

+31 (0)251 36 29 60  
info@deridderpackaging.nl

# Veilig omgaan met droogijs

## Working safely with dry ice



**Niet in contact komen met huid en andere lichaamsdelen zoals ogen**  
*Avoid contact with eyes, skin and other parts of the body*



**Altijd beschermingsmiddelen gebruiken zoals handschoenen en veiligheidsbril**  
*Always wear gloves and safety glasses*

**Niet om op te eten**  
*Do not consume*



**Plaatsen in speciale droogijsverpakking om producten te koelen**  
*Use dry ice packaging to cool your products*

**Niet in slecht geventileerde wagen transporteren**  
*Do not transport dry ice in bad ventilated truck*



**Transporteren in goed geventileerde wagen**  
*Transport dry ice in ventilated truck*

**Niet in kelder- of andere slecht geventileerde ruimten opslaan**  
*Do not store dry ice in basement or other bad ventilated rooms*



**Gebruiken of opslaan in goed geventileerde ruimten**  
*Use or store your dry ice in ventilated rooms*

**Niet in gasdichte verpakking bewaren**  
*Do not store dry ice in airtight packaging*



**Gebruiken of bewaren in speciale droogijsverpakking**  
*Use dry ice packaging*

**Droogijs is géén speelgoed**  
*Dry ice is not a toy*



**Uit de buurt van kinderen houden**  
*Keep away from children*



**Bij persoonlijk letsel een arts raadplegen**  
*In personal injury, consult a doctor*

**Meer informatie of vragen?**  
*More information or questions?*

**De Ridder Packaging**  
Industrieweg 11b  
1566 JN Assendelft

+31 (0)251 36 29 60  
info@deridderpackaging.nl