



Dry Ice

Standard Price List
Great Britain



OFFICE OPENING HOURS

Monday to Friday 08:00 to 17:00

Standard delivery - Monday to Friday (Excluding Bank Holidays)

Working example: Order placed prior to 11 am working day, for next working day delivery.

Order placed by 11 am Friday for delivery on Monday.

	STANDARD DELIVERY	COLLECTED	
	Nippon Gases	Same day**	Next day
Order* received			
Prior to 11:00	✓	✓	✓
11:00 – 15:00	?	?	✓
15:00 – 17:00	X	?	✓

*Order - After receipt of a valid purchase order **Same Day - 2 hours after receipt of order confirmation

✓ - Standard operation

? - An internal request will be sent to Production, and within 30 minutes you'll be contacted to let you know whether or not production is possible

X - Not possible

ADMINISTRATION CHARGES

Item	Description	Price
Late Order/ Order Increase	Orders received after 11 am (Mon - Fri) for delivery next working day. Fee inclusive of: - Machine start up (waste dry ice). - Administration (Processing/Adjusting plans)	£50
Cancellation/Order decrease (Dry ice produced)	If any dry ice has already been produced, you will be charged the agreed purchase fee if Nippon Gases cannot reallocate the product. Delivery tariff and premium delivery services will be waived. - Only full containers can be reallocated.	Product cost
Cancellation/Order decrease (Dry ice not produced)	If the dry ice has not been produced then no charge will be applied.	£0
Copy Invoice/POD	Administration to locate, scan and reissue the POD/Invoice. Charged per document	£25

Administration charges are charged per order.

CONTAINER CHARGES - Rental charged per use £10: Each delivered container will attract the rental charge*.

Damage (Only 1 charge for the worst damage will be made)		Debris (Average depth across the bin)	
Level 1 - £50	Crack/Dent/Puncture/ Damage smaller than 150mm Missing Hinges/Latches/Locking plate	Level 1 - £25	Customer stickers (third party) still applied Heavy soiling Between 0mm < 100mm
Level 2 - £100	Crack/Dent/Puncture/Damage between 150mm to 350mm Multiple Level 1	Level 2 - £50	Over 100mm Deep
Level 3 - £250	Damage over 350mm / Missing Foot Multiple Level 2	IF debris is of a hazardous nature additional charges will be applied.	
Level 4 - £495	New Container Lid		

*Based on new for old and seven days on site holding.

Container Replacement Charge (Damage too substantial for repair) or Lost Container £995.

Container charges are charged per container.

Great Britain

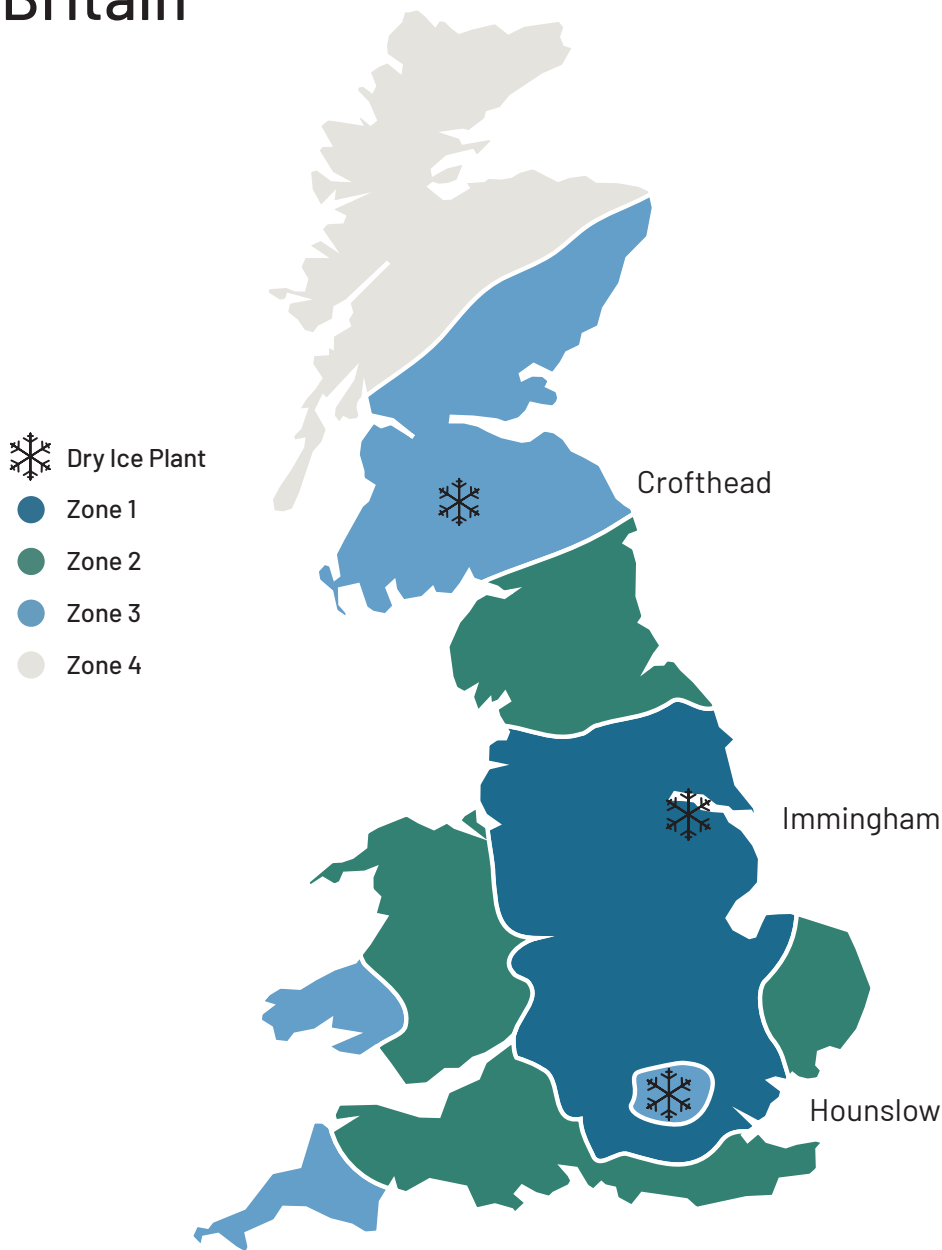


Illustration purposes only

POSTCODE AREAS		DELIVERY CHARGES	
Zone 1	AL, B, BB, BD, BL, BR, CB, CM, CR, CV, CW, DA, DE, DN, DY, EN, FY, GL, GU, HA, HD, HG, HP, HU, HX, IG, KT, L, LE, LN, LS, LU, M, MK, NE, NG, NN, OL, OX, PE, PO, PR, RG, RH, RM, S, SG, SK, SL, SM, SN, SS, ST, TD, TF, TW, UB, WA, WD, WF, WN, WR, WS, WV, YO	ZONE	Tariff (per container)
Zone 2	BA, BH, BN, BS, CA, CF, CH, CO, CT, DH, DL, DT, HR, IP, LA, LD, LL, ME, NP, NR, SO, SP, SR, SY, TA, TN, TS	Collection	£0.00
Zone 3*	AB, DD, DG, E, EC, EH, EX, FK, G, IV, KA, KY, ML, N, NW, PA, PH, PL, SA, SE, SW, TQ, TR, W, WC	Zone 1	£65.50
Zone 4*	Scottish Highlands and Islands	Zone 2	£87.00
		Zone 3	£109.50
		Zone 4	£POA
		Tariffs are charged per Container and are inclusive of delivery and collection.	
		Customer collections Ex Depot are charged £5.00 per order.	

* Please note that Zone 3 and Zone 4 delivery areas can exceed 24 hours. Time of delivery will be provided at the point of order.

Premium Delivery Services



PREMIUM DELIVERY SERVICES

Before 10.30 am	Delivery will be made between midnight and 10.30 am on the selected working day (Mon to Fri). If delivery arrives after 10.30 am a refund of this fee is available on request. Charges for the product and delivery will still apply.	£25
Morning (am)	Delivery will be made between midnight and 12 noon on the selected working day (Mon to Fri). If delivery arrives after 12 noon a refund of this fee is available on request. Charges for the product and delivery will still apply.	£15
Weekend	Delivery on Saturday only. If the demand is not high enough, the service will not run, and service cancellation will be communicated via email by 4 pm on Friday. Full container minimum order. If delivery arrives after the weekend, a refund of this fee is available on request. Charges for the product and delivery will still apply.	£50
Aborted Collection	The driver cannot collect the containers due to a customer issue. Collections are planned to correspond with delivery. 24 hours notice will be given prior to collection, where no delivery is planned.	£40
Aborted Delivery	The driver cannot complete delivery due to a customer issue. Every attempt will be made to contact the customer prior to leaving the site.	Full Cost

Premium delivery services are charged per delivery.

Price List

Nippon Gases UK Ltd can offer a facility to supply dry ice, polystyrene cartons, and a premier overnight UK delivery service, all from the Heathrow site. This is ideal for small urgent shipments, or large marketing campaigns for frozen food manufacturers.

DRY ICE

Product supplied in a food safe film/bag. *Full packs only, minimum order 1 pack. Excluding VAT.*

Pellet pack	10 kg bag	£32.50* per pack
Slice pack	8 x 1 kg	£36.00* per pack
Block pack	10.5 kg	£36.00* per pack

*Monthly Variable Fuel & Energy Surcharge applicable to all orders. To be confirmed upon order placement.

PACKAGING

Polystyrene box with cardboard outer. *Excluding delivery and VAT*

Small Box (maximum 10 kg): 360x260x230* / 395x295x280**	£14.50 per box
Large Box (maximum 20 kg): 530x305x200* / 580x365x240**	£19.50 per box

*Internal dimensions (mm) **External dimensions with cardboard outer (mm)

PACKAGE COURIER CHARGE (Tuesday to Saturday)

For the delivery of a package max 20 kg. *Excluding packaging and VAT*

AM	£29 per package
Next day	£23 per package
Saturday	£39 per package

Unless otherwise agreed in writing, by a duly authorised representative of Nippon Gases UK Ltd, all orders are subject to Nippon Gases UK Ltd - Standard Terms & Conditions - Dry Ice, a copy of which is available upon request. Any reference to (or inclusion of) any alternative terms and conditions (whether with any subsequent purchase order or otherwise) shall not apply and no addition to, variation of, exclusion or attempted exclusion of any term of Nippon Gases UK Ltd's Standard Terms & Conditions shall be binding unless agreed to in writing by a duly authorised representative of Nippon Gases.

Bespoke Container System



Bulk dry ice orders are supplied using modular storage containers exclusive to Nippon Gases. The system has been designed following recognition of customer requirements and demands.

The containers are constructed of durable but lightweight polyethylene, making them recyclable and safe for use in the food sector. Small dry ice orders can also be packed and delivered to customers using insulated polystyrene boxes.

CONTAINER FEATURES

- Durable, virtually maintenance free
- Low sublimation rate
- Stackable container system
- Food grade material
- Lightweight
- Lockable

FULL CONTAINER FILL WEIGHTS

Type	HG 100	HG 200	HG 300	HG 500
External Length (mm)	780	780	800	1175
External Width (mm)	580	580	800	800
External Height (mm)	648	978	978	978
Contents*				
3 mm Pellet (bottleneck liner)	n/a	n/a	210	325
3 mm Pellet (blue liner)	n/a	n/a	210	325
9 mm Pellet (blue liner)	n/a	n/a	210	325
9 mm Pellet (10 kg bag)	60	120	200	320
0.5 kg Slice	75	185	310	560
1.0 kg Slice	100	240	360	560
10.5 kg Block	105	210	315	525

*All product weights are shown in kilograms (kg)

SAFETY HAZARDS



Carbon dioxide gas can build up in vehicles

- Transporting Dry Ice in passenger cars is not recommended.
- Dry Ice will generate carbon dioxide gas and in an enclosed vehicle can lead to a dangerous atmosphere causing intoxication and death by asphyxiation.
- Higher temperatures in the vehicle and poor ventilation will increase the speed of carbon dioxide gas build up.



Dry Ice can move in vehicles

- Containers or packages of dry ice can cause injury and damage if they can move when the vehicle is cornering or braking.
- Any unrestrained dry ice container or package is a hazard.



Dry Ice can be heavy and difficult to handle

- Containers and packages of Dry Ice can weigh over 25kg and can weigh up to 200kg.
- During loading or unloading, injuries can occur from falling containers and packages, and from incorrect manual handling.
- Additional hazards from overloading the vehicle or unbalanced loading are poor vehicle braking and handling.



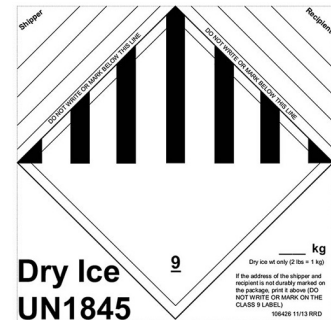
Dry Ice cold & pressure hazards

- Dry ice is very cold -78 °C, if it touches bare skin or eyes it will cause cold burns.
- Exposure of plastics and other hard materials to dry ice may lead to them becoming brittle and shattering.
- If Dry Ice is put in a sealed container, pressure will build up to dangerous levels.



Product Hazards

- Labels show the hazards and weight from packages containing Dry Ice, and are the only way to positively identify the contents of a container.



TRANSPORT REGULATIONS

- Dry Ice is exempt from the ADR transport regulations except where dry ice is used for cooling or conditioning purposes. In this case, the requirements of paragraph 5.5.3 of ADR shall apply.
- Particular attention should be made to the type of transport vehicle used, and the requirements for segregation of the load space from the driver, plus any warning signage which may be required.
- If carrying Dry Ice on passenger transport check how the relevant Transport Regulations apply to you.

HOW TO STAY SAFE



Prevent gas build-up

- Minimise the time Dry Ice is in the vehicle. A dangerous level of carbon dioxide can build up in less than 20 minutes.
- Minimise the quantity of Dry Ice carried in non dedicated vehicles.
- Carrying Dry Ice in passenger cars is not recommended.
- Unload the vehicle as soon as possible
 - never store Dry Ice in an unventilated vehicle.
- Ensure sufficient ventilation of the vehicle over the whole time the Dry Ice load is inside



Ensure all containers are well secured

- Ensure containers and packages are evenly loaded and secured to prevent movement during cornering, acceleration and emergency braking.
- Ensure vehicle is not overloaded.



Loading and unloading

- For heavy containers use mechanical aids or get help to load and unload the vehicle.
- Wear safety shoes.
- Read the product Safety Data Sheet and labels to understand the hazards of the substance you are handling.



Avoid other Dry Ice hazards

- Always wear gloves that provide thermal protection when handling Dry Ice.
- Handle Dry Ice for the minimum amount of time possible.
- Individuals with poor blood circulation should not handle Dry Ice.
- Never put dry ice in a sealed container, to avoid pressure build up.



EMERGENCY ACTIONS

If you feel unwell or suspect a build up of carbon dioxide:

- Stop the vehicle as soon as possible and get out.
- Ventilate the vehicle - open all the doors.
- If you suspect a gas build up in a parked vehicle, do not get in it.

Call your Dry Ice supplier for further advice and a copy of their Safety Data Sheet

SAFETY DATA SHEET	
Carbon dioxide, solid (Dry ice)	
Issue Date:	10.09.2014
Last revised Date:	24.03.2016
Version:	1.1
SDS No.:	0000-00225-00
	1/23
SECTION 1: Identification of the substance/mixture and of the company/undertaking	
1.1 Product identifier	Product name: Carbon dioxide, solid (Dry ice)
Additional identification	Chemical name: Carbon dioxide
Chemical formula:	CO ₂
INDEX No.	-
CAS-No.	124-38-9
EC-No.	204-101-9
REACH Registration No.	listed in Annex IV/7 of Regulation (EC) No 1907/2006 (REACH), exempted from registration.
1.2 Relevant identified uses of the substance or mixture and uses advised against	Identified uses: Industrial and professional. Perform risk assessment prior to use. Blast cleaning, Cooling applications, food freezing, Freezing, Cooling and heat transfer, Laboratory use, Special effects (entertainment), Consumer use.
Uses advised against	Industrial or technical grade unsuitable for medical and/or food applications or inhalation.
1.3 Details of the supplier of the safety data sheet	Supplier: BOC Preston Road, Worsley M28 1JF Manchester E-mail: boct504@bc.com Telephone: 0800 111 333
1.4 Emergency telephone number:	0800 111 333
SECTION 2: Hazards identification	
2.1 Classifications of the substance or mixture	Classification according to Directive 67/548/EEC or 1999/45/EC as amended: Not classified
	Classification according to Regulation (EC) No 1272/2008 as amended: Not classified
2.2 Label elements	Not applicable
2.3 Other hazards:	Refrigerated solidified gas, exists at -78.5 °C. Contact with product may cause severe cold burns or frostbite. Asphyxiant in high concentrations.

Marking of packages containing CO₂/Dry Ice

1. Packages shall be marked with the words **CARBON DIOXIDE SOLID** or **DRY ICE**
2. Packages must be carried in well ventilated vehicles, IF that cannot be achieved then a warning mark shall be fixed near the door to the load area as shown :



The * shall be replaced with the words **CARBON DIOXIDE SOLID** or **DRY ICE** and remain in place until the vehicle is completely unloaded and any concentration of CO₂ dispersed.

3. A document, not specifically a DGN but any form of consignment note, BoL etc.. shall include the UN Number and Name **"UN 1845 CARBON DIOXIDE SOLID** or **UN 1845 DRY ICE**

STORAGE



Always store dry ice in an area which is:

- Well ventilated.
- Preferably not below ground.
- Accessible with mechanical lifting equipment (where the ice is stored in large containers).
- Out of direct sunlight and sources of heat.
- Secure – to prevent unauthorised access.
- Suitable dry ice containers are available from your supplier. Generally, the principle is – the better the insulation, the slower the sublimation rate and the longer the quality of the product will be maintained.
- **DO NOT** store or use dry ice in any gas tight container. Within large containers, gas rich atmospheres will have built up.
- **ALWAYS** secure the container lid open before reaching in to unload the product.
- **AVOID** leaning into the container for longer than necessary.

HANDLING



Working with dry ice

- Many applications of dry ice result in the sublimation of the dry ice volume into the working area.
- **REMEMBER** – a little bit of dry ice will sublime to a large volume of CO₂ gas.
- **ALWAYS** seek professional advice on suitable ventilation systems. Use of dry ice will generate gaseous CO₂. This may require assessment under the UK COSHH Regulations.
- Do not handle dry ice with bare hands. It can cause severe cold burns and frostbite.
- **DO NOT** play with dry ice. Playing games with dry ice is dangerous.
- **ALWAYS** keep dry ice away from children.
- USE AN INSULATED CONTAINER TO STORE dry ice
- DO NOT PLACE IN WORKING REFRIGERATOR OR FREEZER

DISPOSAL

Safe Disposals

- Dry ice sublimates leaving no residue. However, care should be taken when surplus ice remains when the application for which it was intended is completed.
- **ALWAYS** ensure that dry ice is disposed of in a safe place:
 - » Well-ventilated area
 - » Secured against access to passers-by – especially children and animals
- **DO NOT** dispose of dry ice in an area where CO₂ gas can collect in low-lying areas – garage pits, drains, confined spaces, etc.
- Any left over packaging should be disposed of with care and recycled wherever possible.

Call your dry ice supplier for further advice and a copy of their Safety Data Sheet.

Nippon Gases UK & Ireland Gases, Equipment and Services



Bulk Gases specialising in CO₂ but also

- Liquid Nitrogen
- Liquid Oxygen
- Liquid Argon

Packaged Gas (Cylinders and Dry Ice) specialising in Diving Gases and Dry Ice but also

- Speciality Gases
- Electronic Gases
- Welding Gases
- Other gases available on request

Chemicals specialising in AdBlue and Monoethylene Glycol

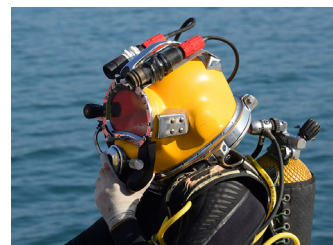
- Other chemicals available upon request

Technical Services, including

- Installation
- Maintenance
- System design

DNV and ISO Tank rentals

- Frame/lift tanks with various lining options



For more information or to discuss your specific requirements:

Tel: +44 (0)1469 554700

Email: dryiceimm.uk@nippongases.com



Nippon Gases UK Ltd

Nippon Gases UK – Dry ice

Nippon Gases UK has the two biggest dry ice production plants within the UK, operating 364 days per year; with secure liquid CO₂ sourcing options, it makes us the natural choice for reliable dry ice supply.

Dry ice is carbon dioxide (CO₂) in its solid state. The product has a temperature of -78.6°C (-109.5°F), whereas traditional water ice is only 0°C. Dry ice is produced by compressing and cooling gaseous CO₂ into liquid, and then allowing it to expand to make CO₂ snow. A hydraulic press then compresses the snow into convenient-sized blocks, slices and pellets.

At Nippon Gases, we develop products for the right applications. Call us, and we'll help you determine the best supply option for your operations.

Nippon Gases Europe

As the European subsidiary of Nippon Sanso Holdings Corporation (NSHD) - a global company with over 100 years' worth of experience - Nippon Gases is responsible for representing the Group's presence and interests in Europe.

Comprised of five operational regions across 13 countries, Nippon Gases believes in an innovative, collaborative, and proactive approach to business. Combining, not only each region's specialities and leadership but also each team, and every employees' individual talent and knowledge.

We achieve results whilst maintaining the highest standards in safety and sustainability - being recognised by many industrial gas associations. Being able to move forward and improve as a team, implementing our joint approach to business whilst being able to give back to our employees and communities in which we operate, is how we are enabling the future together.

Contact information:

Nippon Gases UK Limited
Gresley Way, Robinson Road
Immingham Docks, Immingham
DN40 2NT

Tel: +44 (0) 1469 554775
Email: dryiceimm.uk@nippongases.com

