

	DRY ICE TECHNICAL SPECIFICATION	Page: 1
		Revised Edition No: 4
		Date: 16 th December 2011
		Supersedes : 24 th February 2010
Carbon dioxide (solid) – Dry Ice		PILPROD001

DRY ICE PRODUCT DESCRIPTION

Solid Carbon Dioxide (CO₂), most commonly known as Dry Ice, is very cold: -78°C. It sublimates by taking up heat from the surroundings i.e. turns directly from a solid into an asphyxiant gas that is heavier than air.

Polar Ice Ltd. manufactured premium quality, high density dry ice in the form of pellets, slices, blocks and drice® which is supplied in high quality and stored in specialised insulated dry ice containers.

Polar Ice Ltd. use the world's leading dry ice production equipment with state of the art CO₂ gas revert recovery technology, to produce the best quality dry ice available within Ireland.



DRY ICE PELLETS AND DRICE®



DESCRIPTION - PELLETS

High density (1.6g/cm³), longer lasting cylindrical dry ice pellets, available in the following diameters:

6mm, 9mm, 10mm, 16mm

Length varies 2cm – 6cm

Weight: Sold in units of 10kg

DESCRIPTION – DRICE®

High density (1.6g/cm³), cylindrical 3mm dry ice pellets developed exclusively for dry ice blasting

DESCRIPTION –FOOD GRADE PELLET

Manufactured for use in the beverage and food industry, this food grade dry ice may be used directly in the processing of food stuffs.

Polar Ice Ltd.

Unit 3 Portarlinton Ind. Est., Portarlinton, Co. Laois, Ireland

www.polarice.ie www.polarice.co.uk www.dryice.ie T: +353 (0)57 862 3860

		Page: 2
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DRY ICE BLOCKS



DESCRIPTION – BLOCK

High density (1.6g/cm³), longest lasting dry ice product, rectangular solid blocks of dry ice, available in following dimensions and weights;

Block: 8" x 5" x 10" (10.5kg unit)

5" Brick: 4" x 5" x 5" (5.2kg unit)

2.5" Brick: 4" x 5" x 2.5" (2.5kg unit)

Slab: 8" x 2.5" x 10" (5.2kg unit)

Weight: Sold in packs of 10kg

DRY ICE SLICES



SLICES

High density, long lasting dry ice slices, customised for the airline and pharma industry. Rectangular and square solid pieces of dry ice, available in following dimensions and weights;

1kg Slice: 8" x 5" x 1" (1kg unit)

Half Slice: 4" x 5" x 1" (0.5kg unit)

Puk: 5" x 5" x 0.5" (0.4kg unit)

Weight: Sold in packs of 10kg

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DRY ICE PHYSICAL AND CHEMICAL PROPERTIES	
Molecular weight	44
Melting point	-56.6°C
Boiling point	-78.5°C (sublimes)
Critical temperature	30°C
Relative density, gas	1.52 (air=1)
Relative density, liquid	1.03 (water=1)
Relative density, solid	1.87 (water=1)
Vapour Pressure 20°C	57.3 bar
Solubility mg/l water	2000 mg/l
Appearance/Colour	Translucent white solid
Odour	No odour warning properties
Other data	Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

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