

# DRY ICE

## WHAT IS DRY ICE?

Dry ice is the common name for solid CO<sub>2</sub>. At atmospheric pressure it has a temperature of approx. -79 °C (-110°F). The solid CO<sub>2</sub> goes directly into the gaseous state. This evaporation (sublimation) leaves no residues. Dry ice is non-toxic, non-flammable, inert odourless and bacteriostatic. It is white and has a density of approx. 1500 kg/m<sup>3</sup> in its compact state. Dry ice is an ideal refrigerant, which is particularly suitable for various applications. It has a high cooling capacity and the heat transfer is very high when it is in direct contact with the cold material.



## APPLICATIONS OF DRY ICE

- Dry Ice is used in the Icecream industry to keep ice creams frozen during transportation.
- Dry Ice is used during transportation of biotechnological samples which requires cold or frozen temperatures.
- Dry Ice is used in blasting services for cleaning of surfaces of moulds, degreasing of machines, electrical motor cleaning etc
- Dry Ice is used in fumigation of Grain Containers.
- Dry Ice is used in flash freezing of Food.
- Dry ice is used to produce dense clouds of smoke like fog in the Entertainment Industry.
- Dry Ice is used in the Pharmaceutical Industry as a Catalyst to maintain temperature.

## VARIOUS FORMS OF DRY ICE

- **BLOCKS :** Carbon dioxide snow is compacted into dry ice blocks by pressing it in a special chamber. A dry ice cube/block is of 10-12 kg wrapped with paper and reusable plastic bag
- **PELLETS :** Carbon dioxide snow is compacted into dry ice pellets by pressing it through special dies. The bulk density of the pellets is about 1000 kg/m<sup>3</sup>. They have a characteristic ricegrain shape (approximately 5 to 10 mm long and 3 to 19 mm wide).
- **SLICES :** These are Rectangular slices which get fitted into the tray mould usually used in air catering services.

## WHY US

- Reliable source and multi location manufacturing units help us to produce 24 hour, 7 day a week production of more than 500 tonnes of dry Ice on a monthly basis.
- We have been in the dry ice industry for more than 20 years. We have the most advanced technology to produce high density dry ice Blocks and Pellets 3 mm, 16 mm, 19 mm.
- Consistent quality and supply assurance..
- Providing expertise and solutions to optimize your consumption
- We have our in-house CO<sub>2</sub> production it gives us more flexibility as you always have freshly produced dry ice at your disposal



## SAFETY GUIDELINES

**Use the following precautions when handling dry ice in any form:**

- Use tongs to handle dry ice when possible.
- Use loose-fitting, thermally insulated gloves to manually handle dry ice. **Never handle dry ice with bare hands.**

## STORAGE AND DISPOSAL GUIDELINES

- Always store dry ice in a well-ventilated location.
- Do not store dry ice in confined areas with limited ventilation. This includes cold rooms, walk-in refrigerators and environmental chambers.
- All packaging must allow for release of CO<sub>2</sub> gas. Never seal a container with dry ice in it.

## OUR MANUFACTURING UNITS

- MUMBAI
- PUNE
- AURANGABAD
- DHARMABAD
- SURAT
- VADODARA

**PHONE**

0240 - 2337368

**E-MAIL**

accounts@igpl.co

