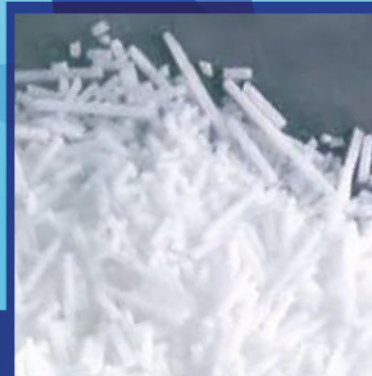
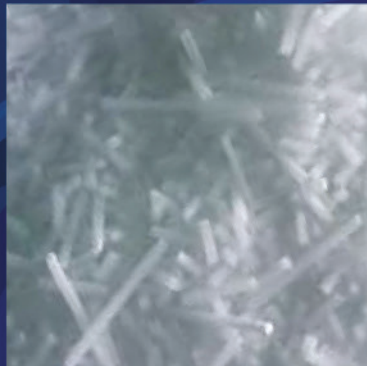


Gulf Cryo is a leading manufacturer of food-grade, industrial, medical and speciality gases in the Middle East. Covering all of the GCC, Jordan, Syria, Egypt, Pakistan and Iraq, our highly skilled engineers work with many different industries developing technology to advance manufacturing processes through innovative gas applications.

CO₂



Dry Ice Blasting



- Liquid Nitrogen Dosing
- Modified Atmosphere Packaging (MAP)
- Cryogenic food freezing and chilling
- Cold transportation
- **Cleaning with dry ice blasting**
- Concrete cooling

With six core gas applications providing a vast range of manufacturing and process improvements to industries such as oil and gas, aerospace, construction, food and beverage and pharmaceutical. We provide analysis, design, trials, and installation, supporting you from application inception to completion.

Our techniques can improve quality, rate of production, time, cost efficiency and distribution capabilities.

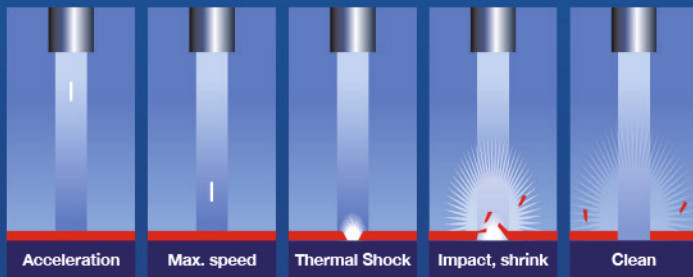


progressive by nature

Faster, easier and kind to the environment – dry ice blasting is the most ecological cleaning solution for businesses today.

Did you know?

Dry Ice is solid CO₂ at -78°C, it is non-conductive and non-toxic!
Dry Ice cleans without a trace of moisture!



Dry ice blasting is an innovative cleaning technology used for industrial applications.

Dry ice pellets (the solid form of carbon dioxide) are accelerated in a pressurized air stream and directed at a surface in order to clean it. On impact, the pellet sublimates transferring kinetic energy to the surface. This process produces thermal shock that penetrates layers of dirt and removes them.

Applications

Dry ice blasting is used to clean food processing equipment, effectively decontaminating surfaces of salmonella enteritidis, E. coli, and listeria monocytogenes. It is also used in industrial applications where equipment needs to be cleaned without being disassembled and without producing a fire or electrical hazard.

Industrial applications include:

- Turbines and generators used in the power generation industry
- Printing presses and other paper industry related machinery
- Fire, soot and smoke damage
- Mold, spore and mildew remediation
- Plastic and rubber molding equipment including injection and extrusion molds
- Paint preparation including paint stripping

The blasting process is explained in the figure above

What we do?

Gulf Cryo is the largest dry ice manufacturer in the Middle East. With 13 subsidiaries across 10 countries our dry ice capabilities reach across the whole region.

- Different dry ice pellet sizes
- We provide specially constructed containers used for dry ice transportation to customer's site
- Dedicated transportation fleet to ensure fast delivery
- Feasibility studies and cost/benefit analysis in comparison with conventional cleaning methods
- Recommend the proper blasting equipment
- Supply equipment and training on the dry ice blasting machine



The benefit for you

The main advantages of dry ice blasting compared to chemical and mechanical methods include:

- Much faster - mechanical assemblies do not need to be dismantled
- Food grade - it is clean and approved for use in the food industry with no secondary contaminants such as solvents or grit media
- Thorough cleaning - can reach inaccessible areas; can clean the smallest holes
- Non-abrasive - will not damage the treated surface
- Cleans without moisture - no secondary dirt or moisture
- Environmentally friendly - no harmful chemicals involved. Safer for staff and to the eco system
- Time and cost reductions - reduced downtime, increased production

Talk to our applications engineers to identify the right solution for you.



Email us: applications@gulfcryo.com or call us: +971 8848199 Ext: 322
Visit us: www.gulfcryo.com