Tepeco Consultants Incorporated

Protecting the environment, and the food we eat

Dry-Ice Jet Blasting

Tepeco's Dry-Ice Jet Blasting treatment is highly effective, safe on equipment and machinery, and is entirely environmentally safe and sustainable.

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Unlike sandblasting and other ebrasive cleaning techniques, Dry-Ice Jet Blasting does not erode or wear away the target surface area as the pellets themselves simply turn into CO2 gas and disappear.

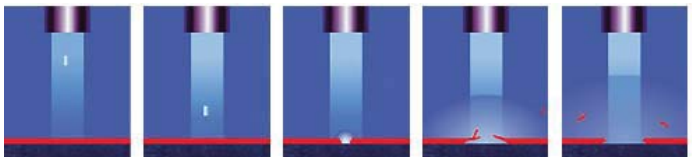
Dry-ice Jet Blasting is a modern, cost-effective cleaning process ideal for the food industry.

Dry-Ice Jet Blasting has many unique and superior benefits over traditional blasting media.

- More effective than traditional water-based methods
- Easy clean up after application
- Is a non-abrasive, nonflammable and nonconductive cleaning method
- Is environmentally responsible and contains no secondary contaminants such as solvents or grit media
- Is clean and approved for use in the food industry
- Allows most items to be cleaned in place without time-consuming disassembly
- Can be used without damaging active electrical or mechanical parts or creating fire hazards
- Can be used to remove production residue, release agents, contaminants, paints, oils and biofilms
- Can be as gentle as dusting smoke damage from books or as aggressive as removing weld slag from tooling
- Can be used for many general cleaning applications

How does Dry-Ice Jet Blasting Work?

Dry ice pellets (CO2 solid at -79°C) are propelled at a supersonic speed by a compressed air gun. Upon impact, the dry ice creates a micro-thermal shock (caused by the extreme cold temperature) which breaks the bond between the coating and the substrate. The high pressure air stream removes the dirt from the surface, while the Dry Ice Pellets vapourize.



Dry-Ice Jet Blasting works because of three primary factors: pellet kinetic energy, thermal shock effect and thermal-kinetic effect. Cold Jet optimizes blast performance for each application by combining these forces and adjusting:

1. compressed air pressure
2. blast nozzle type (velocity distribution)
3. CO2 pellet size and density
4. pellet mass rate and flux density (particles per unit area per second)

Applications

Our technique will sanitize most food production equipment and machinery, as well as any other storage or general traffic areas.Dry-Ice Jet Blasting can save any facility thousands of dollars in maintenance and equipment repair/replacement.

Book an appointment: (519) 653-0441
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