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Industrial Equipment Maintenance: Dry Ice Blasting

Dry ice blasting, also known as dry ice cleaning, is a revolutionary blasting method that utilizes dry ice pellets (CO₂ in solid form) as a blasting media. The result is a completely dry, non-abrasive cleaning method with no secondary waste. The dry ice pellets vaporize immediately upon contact with the surface being cleaned. Only the coating (contaminants, ect.) that has been removed remains to be disposed of.

KINETIC EFFECT

Dry ice pellets are accelerated by compressed air to high velocities thus impacting the contaminant and provoking fractures.

THERMAL EFFECT

The low temperature (-79 C/-110 F) makes the coating brittle, cracks it and loosens it. This allows the dry ice to permeate the coating.

SUBLIMATION EFFECT

After making impact, the dry ice turns from a solid into a gaseous form (sublimates); expanding its volume by a factor of 700. The expansion acts as an explosion that lifts the contaminant off the surface.

WHAT MAKES DRY ICE BLASTING BETTER THAN OTHER CLEANING METHODS?

A NON-ABRASIVE, DRY PROCESS

Dry ice blasting is a non-abrasive cleaning solution where dry ice pellets (CO₂ in solid form) are used as a blasting media. The dry ice pellets vaporize immediately on contact with the surface being cleaning.

FAST AND EFFECTIVE

The combination of extremely high cleaning speeds and a wide range of nozzles means that even normally inaccessible items can be cleaned rapidly.

NO WASTE DISPOSAL

Dry ice cleaning produces no waste products. Only the contaminant that has been removed remains to be disposed of, and this can usually be swept or vacuumed from the floor.

IMPROVED PRODUCTIVITY

Dry ice blasting often allows the company's production equipment to be cleaned while in operation. The costly periods of production downtime for dismantling and/or cleaning are reduced.

ENVIRONMENTALLY FRIENDLY

Dry ice blasting is completely non-toxic and no hazardous chemicals are used. Costs connected with the disposal of blasting media, chemicals or solvents are saved.

LOWER COSTS

Dry ice blasting reduces downtime and the resulting costs, by cleaning production equipment quickly and effectively while in place.



Visit www.GoHiSpeed.com to learn more about Hi-Speed Industrial Service.

Applications: Dry Ice Blasting

- ✔ ELECTRICAL EQUIPMENT & POWER PLANTS
- ✔ SEAT MOLDS
- ✔ ELECTRIC MOTORS
- ✔ TIRE AND GASKET MOLDS
- ✔ GENERATORS
- ✔ GLUE APPLICATORS
- ✔ TURBINES
- ✔ LUBRICATING SYSTEMS
- ✔ SMALL COMPONENTS
- ✔ CONVEYING SYSTEMS
- ✔ INSULATORS & SWITCHES
- ✔ COOLING FANS
- ✔ CABLE WAYS & TRAYS
- ✔ BAKING & FOOD PROCESSING EQUIPMENT
- ✔ INTERIOR AUTO PARTS AND PANEL MOLDS
- ✔ AND MUCH MUCH MORE>>

Before



After



Before



After

