

SPP HYDROTECH



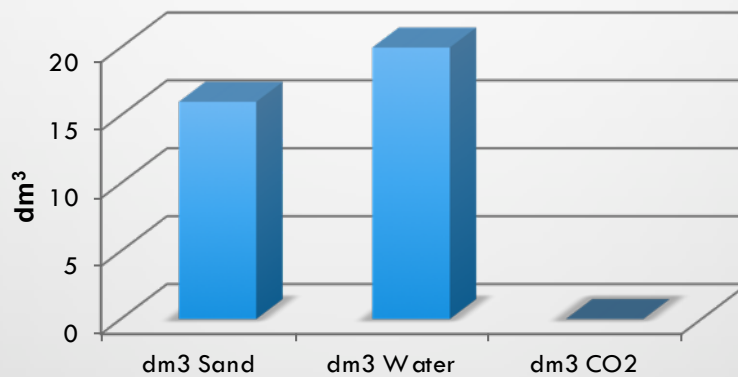
Dry Ice Cleaning

How Does It Work

The frigid temperature of the dry ice against the material to be removed causes it to shrink and loose adhesion from its sub surface. Additionally, when some of the dry ice penetrates through the material to be removed, it comes in contact with the underlying surface. The warmer sub surface causes the dry ice to convert instantly back into carbon dioxide gas without going into a liquid stage. The gas has an 800 times greater volume and expands behind the undesired material – generating micro explosions, speeding up its removal.

Dry ice pellet cleaning (CO₂ - pellets) is 100% ecologically safe, USDA rated, biodegradable and harmless to humans, animals and marine life.

Necessary Deposit of Cleaning Material for the Cleaning of 1 m² Area, Contaminated with Dirt



Dry Ice cleaning does not generate any secondary waste

What Can Be Cleaned By Dry Ice

What can be cleaned with dry ice



The dry ice cleaning can be applied to any base material.

- External and internal parts of gear boxes. While with the usual procedure by washing with solvent, the solvent need to be proper disposed, with dry ice only the removed contamination need to be disposed. The removed contamination can be straight collected by a air powered vacuum cleaner.
- Insulators and bus bars are cleaned effortless without any chemicals.
- Internal and external parts and surfaces of control cabinets. Even very sensitive parts such as electronic items or contactors do not need any protection.
- Internal and external parts and surfaces of electrical motors are cleaned to “as new” condition.
- Generators are cleaned without any risk of damage.
- Gas turbine blades are cleaned with no possibility of damaging.
- Plate heat exchanger do not need to be pressure washed with big amounts of water.
- Cleaning of generator housing end in preparation of pulling out of rotor without any risk of damaging of the winding.
- Internal tube cleaning of heat exchanger and pre-heater in the chemical and oil & gas industry.

Equipment

With our modern equipment and a wide range of different nozzles we are well equipped to clean even difficult to reach areas.



For critical working environments we also have fully pneumatic (no electricity needed for the feeder) dry ice blaster.

Tailor made blast nozzles are at hand for particular application.



Dry Ice As A Cleaning Tool

Different contamination

Despite other contaminants, dry ice removes:

- Corrosion products
- Old paint
- Oil
- Grease
- Asphalt
- Tar
- Decals
- Soot
- Dirt
- Ink
- Resins
- Adhesives



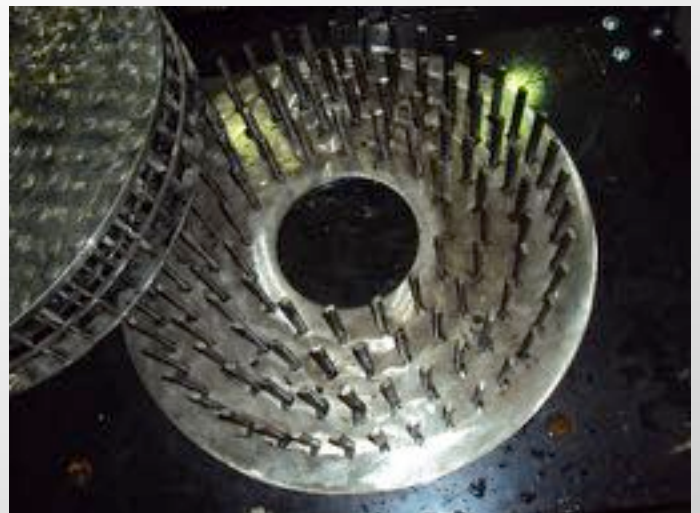
Dry Ice As A Cleaning Tool

The solution for perfectly clean complex surfaces

P
P

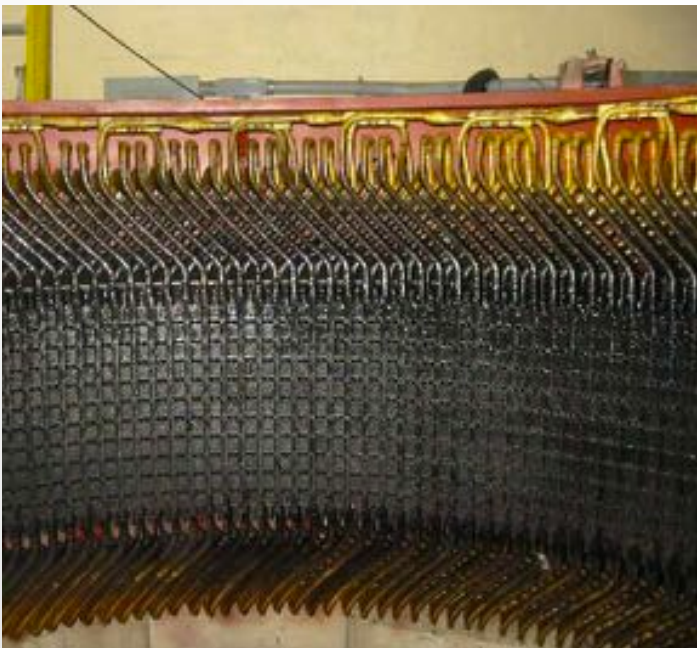


Dry ice cleaning of special impeller with no secondary waste.



Dry Ice As A Cleaning Tool

Cleaning with dry ice is fast and efficient.



A stator prior and after dry ice cleaning

To keep certain equipment free from contamination is also part of the fire prevention in chemical and petrochemical plants.



Dry Ice As A Cleaning Tool

The solution for perfectly clean tubes

Clean working with dry ice. No water splashing or dust in case of sand blasting.



While high pressure or abrasive cleaning may damage the tube surface, dry ice is non abrasive and can not harm the surfaces.



On Side Service

No dry ice pellets available.

No problem.



In the event that there are no dry ice pellets available, we bring our own pellet maker at site. As long as liquid carbon dioxide can be arranged, we make our own high density pellets at site.

For further information please kindly contact:

SPP HYDROTECH

494/1 Soi 9, Moo 6

Pananikhom, Nihompattana

Rayong 21180

Thailand

General E-Mail:

Info@spphydrotech.co.th

Technical Information:

peter.schink@spphydrotech.co.th

Sales:

sales@spphydrotech.co.th

Web:

www.spphydrotech.co.th

Or our local partner



SPP HYDROTECH