



End The Nightmare Of Hard Carbon And Coke Deposits Clogging Up Your Heat Transfer System



It's scary how fouled up a heat transfer system can become over time – especially in the demanding chemical processing industry. Depending on the quality of heat transfer fluid in use, black, hardened deposits can contaminate the system and reduce its ability to transfer heat effectively. Every time these deposits foul the system it needs to be shut down, cleaned out thoroughly and refilled before equipment damage occurs or production efficiencies are affected. Several hours, or even days, of production time can be lost in order to complete this cycle.

Fouling is caused by the thermal and oxidative degradation of the heat transfer fluid. After prolonged usage at high temperatures, most heat transfer fluids break down and leave a buildup of toxic chemical deposits on the equipment's interior. This excess layer of coke, carbon and sludge has a lower rate of thermal conductivity and consequently can cause the system to operate less efficiently.

To rectify the problem, plant managers must keep tabs on the state of their heat transfer units and clean them out when necessary. Conventional water-based cleaning fluids have traditionally been used to try and clean and restore fouled heat transfer systems. However, these water-based products are hardly an optimum solution, as they are incapable of effectively cleaning heavily carbonized systems without a prolonged shutdown. Most plant managers using water-based cleansers must perform multiple rinses to free their equipment of contaminants and then run their system to evaporate any excess water.

That's why choosing the right cleaning fluid can be so critical to getting your heat transfer system up and running as quickly as possible. The ideal cleaning fluid



Heavy carbonization of heat transfer fluids.†



After using PETRO-CANADA CLEANING FLUID.†

should demonstrate high dissolving action, contain effective carbon removal agents and be powerful enough to help minimize system downtime and maintenance hassles. A clean system should also extend the life of the heat transfer fluid and improve the thermal efficiency of the heat transfer system when it's back in operation.

One new fluid that demonstrates all of these characteristics is Petro-Canada Cleaning Fluid. This new product is specially designed to clean dirty heat transfer systems that have been fouled by the heavy carbon and sludge residues left behind from used aromatic and/or mineral-based heat transfer fluids. Petro-Canada Cleaning Fluid effectively cleans heavily carbonized systems, contributes to better thermal efficiency and ensures less equipment downtime than water-based chemical cleaners.

One company that has experienced the benefits of the Petro-Canada Cleaning Fluid firsthand is Orion Pharma, Finland's leading manufacturer of pharmaceutical products. After experiencing major productivity reductions in one of their heat transfer units, Orion decided to clean out their system completely with the Petro-Canada Cleaning Fluid. After a single cleaning, the company restarted the system and immediately reported that it was performing more efficiently than ever.

The new cleaning fluid is part of Petro-Canada's complete line of heat transfer fluids and cleansers, which includes CALFLO HTF, CALFLO AF, CALFLO FG, CALFLO LT and Petro-Canada's Flushing Fluid.

So remember to protect your equipment and keep your heat transfer system running smoothly by using an advanced cleaning fluid. In the long run, it'll eliminate the nightmares and help you sleep better at night.



†Dramatization of pipe cutaway

If you would like to know more about Petro-Canada's Cleaning Fluid, Flushing Fluid or any of our CALFLO Heat Transfer Fluids, please contact us at:

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