

Choosing the right heat transfer fluid can lead to a long operating life.

Marlotherm® SH heat transfer fluid has lasted 42 years in Greece facility.

SITUATION

In 1980, VITEX wanted to find the most suitable heat transfer fluid for the specific needs of a plant in Greece used to make bituminous waterproofing materials. After searching, they found Marlotherm heat transfer fluids.

ANALYSIS

The closed operating system required a maximum temperature between 270°–280°C. Marlotherm® SH heat transfer fluid was recommended. Synthetic oil lasts longer than mineral oil, which may need replacement sooner depending on operating conditions and can result in unplanned downtime with higher maintenance costs. Marlotherm is a synthetic product, which can offer improved thermal stability at higher temperatures compared to many paraffinic-based products, like mineral fluids. Improved thermal stability may result in a longer fluid lifetime.

SOLUTION

By sampling its heat transfer fluid annually for analysis by Eastman, VITEX has maintained the performance of its fluid. The process has been made easier with the introduction of Fluid Genius, an advanced software now used in the annual certification of the system's integrity. Fluid Genius has been key to monitoring and preventing potential flashpoint issues.

RESULTS

After 42 years, the fluid remains in good condition.

"This is an uncommon but remarkable situation where Marlotherm SH performed for decades," said Mark Brucks, segment market manager for Eastman. "But it just goes to show the importance of selecting the right heat transfer fluid for your facility and process need. And that's an area where Eastman prides itself on going above and beyond for our customers."



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