Heat Transfer Fluids

High Performance with High Purity PG
DOWFROST™ Heat Transfer Fluid Made with DOW PuraGuard™ Propylene Glycol USP/EP

An Industry Leader

DOWFROST™ Heat Transfer Fluid is the only inhibited glycol made with DOW PuraGuard™ Propylene Glycol USP/EP, a pharmaceutical grade of monopropylene glycol with specified purity greater than 99.8%. You can count on a consistent formulation to provide reliable, long-lasting protection and performance.

By contrast, competitor products are often made from recycled or industrial grade glycols, or from glycols derived from bio-renewable sources. These glycols typically do not meet USP specifications as they contain significant amounts of impurities like ethylene glycol or diethylene glycol, which at certain levels affect toxicity. They also may contain certain other impurities, such as dioxolanes which impart strong odors and cause excessive foam.

Glycol Quality and Fluid Life

Every heat transfer fluid will degrade over its lifetime. Degradation compounds will build over time and combine with impurities originally present in the new fluid. This is natural and unavoidable. The key point is that once the total amount of impurities and degradation compounds exceed the critical threshold, where corrosion inhibitors become overwhelmed, the fluid must be replaced. No amount of additional corrosion inhibitors or additives can negate or undo their potential harmful effects.

In simple terms, a fluid containing a higher amount of starting impurities than DOWFROST™ Heat Transfer Fluid will reach the end of its useful life sooner, with less operating time before it must be replaced (all other factors being equal). A great way to prolong fluid lifetime and to lower your cost of ownership, is to use a heat transfer fluid made with a high purity propylene glycol.

About DOW PuraGuard™

DOW PuraGuard™ Propylene Glycol USP/EP follows the industry’s most rigorous quality-control processes – including adherence to Good Manufacturing Practices (GMP) based on guidelines from The Joint IPEC-PQG Good Manufacturing Practices Guide for Pharmaceutical Excipients.

Dow was the first company to achieve third-party IPEC GMP certification for propylene glycol (PG) for its PG manufacturing facilities in Freeport, Texas, and Plaquemine, Louisiana. Dow’s commitment to GMP throughout the supply chain enables DOW PuraGuard PG USP/EP to be handled according to stringent requirements for consistent purity.

Though the third-party IPEC GMP certification has been received by Dow’s two North American PG USP/EP manufacturing sites, Dow’s stringent global manufacturing standards for Propylene Glycol USP/EP enable the availability of the same consistently pure, high-quality product around the world.

For more information on DOW PuraGuard™ Propylene Glycol USP/EP, visit www.dowpg.com.

For more information on DOWFROST™ Heat Transfer Fluid, visit www.dowfrost.com.