

LUBRITHERM® ALL-TEMP BIODEGRADABLE HYDRAULIC FLUID

LUBRICITY VERSUS VISCOSITY

Concerns about lubricity arise when discussing Lubritherm Hydraulic Fluid due to its low Viscosity Grade (VG) of 10, especially when compared to other hydraulic fluids that typically have an average VG of 40.

Traditional oil-based hydraulics rely on the oil for lubrication, usually requiring a VG of 40 to ensure sufficient oil film thickness that prevents galling, or metal-to-metal contact. It's a widely held belief that thinner oils may not offer sufficient lubrication. As oils heat up, their viscosity decreases, reducing their lubricity. This is why oil-based hydraulics are sensitive to certain temperature ranges. When the oil temperature drops below the freezing point, it becomes too viscous and may not function effectively as a hydraulic fluid.

However, Lubritherm Hydraulic Fluid is distinct as it doesn't contain oil. Its unique and safe formulation ensures it offers enhanced lubrication compared to mineral oils. The fluid's thin viscosity offers benefits such as preventing potential air entrainment, which results in prompt hydraulic responses, eliminating issues like hammering and shuddering. Lubritherm ensures consistent protection for an extended period, up to ten years, while also preventing corrosion.

LubeCorp's Lubritherm Hydraulic Fluid has been certified by Environment Canada under the Environmental Choice Program. It's recognized as environmentally safe, biodegradable, entirely non-toxic, and fire-resistant. With an impressive temperature range from -60°C to +80°C (-75°F to +175°F), Lubritherm is endorsed as a direct substitute for petroleum, vegetable, or other synthetic hydraulic oils.

Note: The heat rejection capability of Lubritherm is substantially higher than mineral oil, resulting in a cooler running system. This significantly reduces the Viscosity Grade differential between mineral oil and Lubritherm at actual operating temperatures.

Originally Approved by:



**Environment
Canada**

under the Environmental Choice Program

Have questions? Reach us at: www.lubecorp.com

