

## PRODUCT SPECIFICATION

# Ultrakool SLH

Premium Heat Transfer Fluid for Gas Compression Engines

Ultrakool SLH is a premium ethylene glycol-based heat transfer fluid for gas compression engines and line heaters. Ultrakool SLH is formulated to be a functional equivalent to products such as Dow's Ambitol and Norkool SLH.

Ultrakool SLH's industry leading formulation includes premium anti-scaling technology with its nitrite-based corrosion inhibitor package. It contains no amine or ammonium compounds and is not injurious to non-ferrous metals, such as brass or aluminum. As an added safeguard this product does not decompose at temperatures found in supercharged engines. Ultrakool SLH is formulated to inhibit corrosion of iron, copper and aluminum and contains additives to promote metal filming to prevent cavitation of cylinder walls in both high speed and low speed engines. This property is especially important for protection of the cylinder wet liner sleeves of large industrial engines.

Ultrakool SLH acts to prevent cavitation corrosion via two mechanisms:

- (1) Its premium corrosion inhibitor package that provides maximum protection under normal conditions and possesses the ability to quickly form and reform a tenacious inhibitor film under stressed conditions.
- (2) Ultrakool SLH possesses a surface wetting-agent quality (changing the surface tension of the water) that allows the inhibitor to effectively reach the metal surface and apply a continuous protective film. It also acts to create smaller, less aggressive vapor bubbles that have a less violent collapse.

### Quality Base Fluid

The high quality, virgin ethylene glycol fluid base of Ultrakool SLH contains less than 0.5% by weight of diethylene glycol or other glycols

### Buffering & pH

Ultrakool SLH is buffered to maintain a pH of 8.4-9.4 in properly maintained fluid. Its reserve alkalinity level will allow it to resist fluid oxidation thus extending the life of the glycol

### Coolant Analysis

Our included analysis of coolant samples allows customers to monitor fluid condition via parameters such as inhibitor level, alkalinity, freeze point, glycol concentration, etc

## PRODUCT APPLICATIONS

- Cooling of large stationary engines (natural gas compression)
- Cooling of field compression units (natural gas gathering systems)
- Natural gas line heaters
- LNG vaporizers
- Wellhead heaters, and combustion air preheaters

## PROPERTIES

### Based on Ultrakool SLH 50 (50% by volume)

Appearance	Clear colorless fluid
Specific Gravity, at 20°C	1.070-1.085 kg/L
Flash Point	None
Freeze Protection	-37.8°C/-36.0°F
Burst Protection	-75°C/-100°F
Specific Heat, at 50°F	0.800 BTU/lb °F
Thermal Conductivity, at 50°F	0.221 BTU/hr ft °F



NOTICE: Genesis Chemicals makes no warranty or representation as to the suitability of the product as specified herein for any particular application. The determination of the suitability of the above specification for any particular use is solely the responsibility of the user. All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Consult Genesis Chemicals and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications. Freedom to use any patent owned by Genesis Chemicals or others is not to be inferred from any statement contained herein.