

# OIL & GAS

World leaders in valve integrity

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## TECHNICAL DATA SHEET

Product Code: D0071  
Quality Standards:  
ISO 9001:2015  
ISO 14001: 2015  
Issue Date—September 2023  
Revision—03

### ClareTech HFL WG (Winter Grade)

Synthetic valve lubricant for hydraulic fracturing operations  
NLGI 2

#### Description

ClareTech HFL WG (Winter Grade) has been specifically designed to provide improved pumpability at cold temperatures using conventional pump equipment.

Standard valve greases are not engineered to withstand the unique operational difficulties faced during frac operations. ClareTech HFL WG has been specially developed with these challenges in mind.

Enhanced cavity retention, advanced water stability, allows operators to extend the number of stages before needing to re-grease.

Erosive sand and debris are prevented from entering the cavity, ensuring these critical valves can be operated easily.

A highly viscous hydrocarbon insoluble grease compound ensures that even under high pressure and high flow, the grease adheres to the metal surfaces and valve parts remain protected for longer.

#### Features and Benefits

- Excellent pumpability in low temperatures
- Highly viscous grease
- Resistant to water, common frac fluids, aliphatic hydrocarbons and condensate
- Formulated with corrosion inhibitor and extreme pressure additives
- Whereas most greases will thin out when diluted with water, ClareTech HFL WG is designed for extreme stability when mixed with water.

#### Typical Characteristics

Appearance	Visual	Smooth
Colour	Visual	Grey
Thickener		Inorganic (non-soap)
Temperature Range		-30°F to 250°F
Unworked Penetration	IP 50	265—295
Drop Point	IP 396	Non-melting
4-Ball Weld Load	IP 239	400kg
Water Spray Off Test	ASTM D4049	>90% retained
Hydrocarbon		Excellent
<b>Base Oil Characteristics</b>		
Base Fluid Type		Synthetic Oil