

OIL & GAS

World leaders in valve integrity

Innovating for tomorrow



TECHNICAL DATA SHEET

Product Code: D0052
Quality Standards:
ISO 9001:2015
ISO 14001: 2015
Issue Date—September 2023
Revision—5

ClareTech HFL

Synthetic valve lubricant for hydraulic fracturing operations
NLGI 3

Description

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

With enhanced cavity retention, ClareTech HFL enables all brands & models of frac gate valves to be on-site maintenance-free valves.

ClareTech HFL has proven quantifiably time after time that it can handle at least 60 stages of 100 mesh sand without any field re-greasing, whilst eliminating sand ingress and damage to the gates, seats & seat pockets.

Erosive sand and proppants 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

Features and Benefits

- 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 is designed for extreme stability when mixed with water.

Typical Characteristics

Appearance	Visual	Smooth
Colour	Visual	Grey
Thickener		Inorganic (non-soap)
Temperature Range		-10°F to 350°F
Unworked Penetration	IP 50	210—240
Drop Point	IP 396	Non-melting
4-Ball Weld Load	IP 239	400kg
Water Spray Off Test	ASTM D4049	>98% retained
Hydrocarbon		Excellent

Base Oil Characteristics

Base Fluid Type		Synthetic Oil
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