

OIL & GAS

World leaders in valve integrity

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TECHNICAL DATA SHEET

Product Code: D0058
Quality Standards:
ISO 9001:2015
ISO 14001: 2015
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ClareTech STL

High Temperature Steam and Geothermal Service Grease
NLGI 2.5

Description

ClareTech STL is a high temperature service grease, engineered for the specific operating parameters found in steam and geothermal operations. Combining excellent cavity retention and wear protection with superior lubricating properties, ClareTech STL gives you long lasting protection for your high temperature service valves.

Application

ClareTech STL is suitable for both injector and producer gate valves used in steam and geothermal service operations. Particularly suitable for use where high temperature, crude oil and natural gas, steam, acids, sand slurries and difficult condensates are encountered.

Benefits

- Maintains viscosity at high temperatures and does not harden
- Highly adhesive, will remain in the valve cavity under high temperature and pressure conditions
- Superior sealing capabilities
- Highly chemically resistant
- Very low thermal expansion
- Good low temperature pumpability
- Excellent extreme pressure and wear resistance
- Low oil separation even at elevated temperatures
- Can greatly extend re-greasing intervals

Typical Characteristics

Water Spray Off Test	ASTM D4049	<2.5% mass lost
Unworked Penetration at 25°C	IP 50	235-265
4-Ball Weld Load	IP 239	800kg
Drop Point	IP 396	Non-melting
Colour	Visual	Black/grey
Base Fluid Type		Synthetic Oil
Thickener		Inorganic (non-soap)
Oil Separation 220°C, 30 hours	ASTM D6184	<1.5%
Temperature Range		-20°F to 650°F

Resistance

- H₂S and CO₂
- Salt water/brines
- Steam
- Frac acid (28% HCl)
- Produced sand
- Drilling muds