

SYNTH HTL STEAM PLUS (Steam Injector & Geothermal Wellhead Valves Grease)

(Synthetic High Temperature Valve Grease for Steam Injection & Geothermal Production Wellhead Gates Valves, Plug Valve, Threaded Connections)

DESCRIPTION

SYNTH HTL STEAM PLUS is a high temperature valve grease based blended with special chemical resistance synthetic oil & Inorganic thickener. It is specially formulated with special chemical additives like anti-oxidant, anti-rust, molybdenum disulphide, graphite, corrosion inhibitor as well as special extreme pressure (EP) additives to withstand severe corrosion due to hydrogen sulphide and improve metal adhesion and provide excellent film forming in applications of valves in oil drilling. This is a hydrocarbon resistance grease having excellent metal adhesion and lubricating properties even at high pressures and high temperature steam service valves which gives long lasting protection against crude oil, gas, petroleum liquids, acid and water. This grease is suitable for plug valve, threaded connections, injector and producer gate valve specially used in steam and wellhead service operations.

APPLICATIONS

- **SYNTH HTL STEAM PLUS** is suitable for both injector, producer gate valves under influence of chemicals/fuel, threaded connections, steam injection and geothermal wellhead service operations.
- Mainly suitable for API 6A Wellhead Gate Valves where sour crude & gas other impurities are present.

ADVANTAGES & BENEFITS

- Excellent highly chemical resistance, H₂S / HCL corrosion resistance, hydrocarbon resistance, water & steam resistance to changes in consistency at high temperatures. It will not harden
- Highly adhesive, will remain in the valve cavity under high temperature and pressure conditions.
- Maintains viscosity at high temperatures and does not harden, high film strength,
- Good low temperature pumpability & Can greatly extend re-greasing intervals.
- Excellent extreme pressure and wear resistance, Low oil separation even at elevated temperatures.
- Able to remain stable at extreme operational high temperature and pressure ranges
- Reduced maintenance costs due to possible lifetime lubrication and improving valve reliability.

Resistance: H₂S, CO₂, salt water/brines, steam, 28% frac acid (HCl), produced sand & drilling muds.

PROPERTIES

NLGI GRADE	2.5
Worked Penetration, 60x (ASTM D217)	250-270
Color & Appearance	Black/grey , tacky
Base Oil Type	Synthetic blend
Thickener	Inorganic (non-soap)
Solids Content	Molybdenum disulfide
Additives	Anti-corrosion, Anti-Oxidant, Anti-Rust, Special EP, Friction Modifiers, H ₂ s inhibitors etc
Drop Point (IP 396)	Non-melting
Copper Strip corrosion @100°C for 24 hrs	1a
Resistance to water spray (ASTM D4049)	<2.5% mass lost
Oil Separation 220°C, 30 hours (ASTM D6184)	<1.5%
Evaporation, % loss @100°C for 24 hrs	0.2% (max)
4-Ball Weld Load in kgs (IP 239)	800
Operating Range °C	-20°C to 400°C

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