

## SYNTH VALVE WH-1000 (Geothermal Wellhead Valves Grease)

*(Synthetic High Temperature Valve Grease Reduce Geothermal Production Wellhead Gates Valves & Plug Gates Valve Maintenance Costs While Improving Valve Reliability)*

### DESCRIPTION

**SYNTH VALVE WH-1000** is a hydrocarbon resistance grease designed specifically for wellhead applications. **SYNTH VALVE WH-1000** is blended with special chemical resistance synthetic oil, Inorganic thickener 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 which gives long lasting protection against crude oil, gas, petroleum liquids, acid and water.

### APPLICATIONS

- **SYNTH VALVE WH-1000** is formulated to use in valve wellhead valves, injector and producer gate valves, gaskets, packing, pipe threaded connections, bolts, couplings and other areas where high solvent resistance is required specially used in steam and wellhead service operations.
- Excellent lubricant for applications involving Hydrogen Sulphide corrosion.
- Mainly suitable for API 6A Wellhead Gate Valves where sour crude & gas other impurities are present.

### ADVANTAGES & BENEFITS

- Excellent highly chemical resistance, H<sub>2</sub>S / HCL corrosion resistance and hydrocarbon resistance.
- 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:** H<sub>2</sub>S, CO<sub>2</sub>, salt water/brines, steam, 28% frac acid (HCl), produced sand & drilling muds.

### PROPERTIES

NLGI GRADE	1 & 2
Worked Penetration, 60x (ASTM D217)	295 - 310
Color & Appearance	Blackish Grey , Smooth Homogeneous & Tacky
Base Oil Type	Special Synthetic blend
Thickener	Inorganic (non-soap)
Solids Content	Molybdenum disulfide & Graphite
Additives	Anti-corrosion, Anti-Oxidant, Anti-Rust, Special EP, Friction Modifiers, H <sub>2</sub> s inhibitors etc
Drop Point (IP 396)	Non-melting
Resistance to water spray (ASTM D4049)	<2.5% mass lost
Copper Strip corrosion @100°C for 24 hrs	1a
Oil Separation 30 hours @ 160°C, (IP 121)	<1.5%
Evaporation, % loss @100°C for 24 hrs	0.2% (max)
4-Ball Weld Load in kgs (IP 239)	800
Operating Range °C	-40°C to 1000°C

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