

# SYNTH VALVE HD (Synthetic Grease for Gate & Plug Valve Sealant Cleaner)

## DESCRIPTION:

**SYNTH VALVE-2 HD** is fully synthetic grease specifically formulated for gate and plug valve sealant is specifically designed to ensure that have maximum resistance to light hydrocarbon liquids, chemicals encountered in the exploration and production of crude oil and gas in petrochemical industries are present, making it the sealant of choice for pipeline and compressor station usage. The combination of fully synthetic base fluid, an inorganic thickener, very high content molybdenum disulphide (solid lubricants), incorporating an advanced corrosion inhibition system and stabilizer. The MoS<sub>2</sub> enhances sealing and lubrication by burnishing into scratches effectively renewing surfaces. **SYNTH VALVE HD** is pumpable to temperatures as low as -40°F (-40°C) when used with a high-pressure lubricator, it retains its consistency at 450°F (232°C) within a valve where oxygen contact is avoided. They act as a lubricant to the valve components and will assist in maintaining or regaining sealing performance to minimize leakage. It provides complete protection during the critical start up and running in periods. Ideal for assembling plain bearings, pins, slides and gears etc. It is also suitable for the lubrication of valves and other slow moving parts under high loads.

## APPLICATIONS

- **Recommended Applications:** Gate and plug valves used in crude oil, natural gas production and pipeline equipment. Particularly suitable for use where light hydrocarbon liquids, chemicals, crude, gas, acids and sand slurries in difficult condensates are encountered. Lubricant for pressure lubricated plug valves, flow meter bearings, ceramic plug cocks, pneumatic control valves, fire extinguishers and water softener valves. Sealant and lubricant for glass joints and stopcocks in normal as well as high vacuum and pressure systems.
- **Note:** **SYNTH VALVE HD** are not recommended for use on floating seat ball valves.
- **Recommended Clean-Up:** Although conventional solvents like methanol, ethanol, IPA, chlorinated solvent, aromatic solvents, acetone and other ketones can be utilized. It is a nontoxic, non-flammable, biodegradable lubricant and cleanser specifically designed for valve cleaning applications. It contains no components listed as federal hazardous wastes.

## FEATURES /BENEFITS

- Wide operational temperature ranges from -40°F to 450°F (-40°C to 232°C).
- Outstanding resistance to exploration & production chemicals (Crude oil, hydrocarbons, natural gas condensate, H<sub>2</sub>S, CO<sub>2</sub>, salt water/brines, steam, 20% frac acid (HCl), diesel, fuel, produced & drilling mud).
- Highly adhesive, tenacious film ensures to protect valve components ensuring smooth, reliable operation and resist wash-out minimizing cavity contamination under high pressure conditions for all metal surfaces.
- Reduces Torque, Stops Leaks, No-hazardous and highly resistant to oxidation and will not harden in use.
- Excellent lubrications in sealant plugs valves even at 10,000 psi and sealing properties.

## PROPERTIES

GRADES	SYNTH VALVE HD
NLGI Grade	1 & 2
Base Oil Type	Synthetic Oil
Color & Appearance	Black greyish (Smooth & Tacky) & thin paste
Solid Lubricants %	50% molybdenum disulphide
Unworked Penetration @ 25°C, ASTM 217	265 - 345
Drop Point °C	Non-Melting <320 to -40°F (-40°C)
Low Temperature Performance	Manually Pumpable at - 13°C
Operating Temperature Performance	-40°F to 450°F (-40°C to 232°C)
4 Ball Weld Load in Kgs	<620 to 800
Pressure	upto 10000 psi

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