

OIL & GAS

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TECHNICAL DATA SHEET

Quality Standards:
ISO 9001:2015
ISO 14001: 2015
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Revision—01

VALVE LUBRICANT 601

Synthetic valve lubricant and sealant
NLGI 2

Description

Valve Lubricant 601 is a specially formulated valve lubricant based on a fully synthetic oil and incorporating an advanced corrosion inhibition system and an inorganic thickener.

Valve Lubricant 601 contains special extreme pressure and anti-wear additives and combined with a base oil of very high film strength, displays excellent lubricating properties. The special texture provides maximum adhesion to all metal surfaces even when subjected to very high pressures.

Applications

Valve Lubricant 601 has been field proven all over the world in gate and plug valves used in crude oil, natural gas production and pipeline equipment. Particularly suitable for use where sour crude and gas, acids, sand slurries and difficult condensates are encountered.

Valve Lubricant 601 is fully compatible with our Valve Lubricant 601 and Valve Sealant 701 range.

Features and Benefits

- Currently used to seal McEvoy valves
- Highly adhesive, will remain in the valve cavity under high pressure conditions
- Highly chemically resistant
- Highly resistant to oxidation and will not harden in use
- Multiple OEM approvals - number of lubricants required can be reduced
- Proven to seal plug valves at 15,000 psi
- Wide operational temperature range

Typical Characteristics

Appearance	Visual	Smooth, adhesive
Colour	Visual	Black/Grey
Thickener		Inorganic (non-soap)
Temperature Range		-20°F to 450°F
Penetration at 25°C	IP 50	265-295
Drop Point	IP 396	Non-melting
4-Ball Weld Load	IP 239	>620kg
Low Temperature Performance*		Pumpable manually at -13°F

Base Oil Characteristics

Base Fluid Type		Synthetic
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Resistance

- 20% frac acid (HCl)
- Crude oil, natural gas and condensate
- Diesel fuel
- Drilling muds
- H₂S and CO₂
- Produced sand
- Salt water/brines
- Steam

* Pumpability temperature ranges refer to reasonable flow rates when using the RS Clare 70:1 Pump System (RS Clare configuration).