

OIL & GAS

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TECHNICAL DATA SHEET

Product Code: D0031
Quality Standards:
ISO 9001:2015
ISO 14001: 2015
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ClareTech BVL

Synthetic ball valve lubricant and sealant
NLGI 1

Description

ClareTech BVL is a specially formulated ball valve lubricant based on a fully synthetic oil and incorporating an advanced corrosion inhibition system and an inorganic thickener. It is specifically developed for use in API 6D ball valves under severe service conditions.

Ball valves have internal seal rings which provide a bubble tight seal between the ball and valve body and are designed to provide a shut-off seal without the use of a sealant or viscous grease type compound. However, in use, any minor surface damage caused by corrosion or abrasive particles can result in leak pathways forming.

ClareTech BVL is recommended as an extremely effective preventative and corrective maintenance product, ensuring reliable valve performance.

Features and Benefits

Synthetic base oil with high viscosity index	Good film strength at high and low temperatures
	Excellent oxidation resistance
	Resists stiffening and gum/varnish formation
	Naturally safe with almost all seals and elastomers
Inorganic Thickener	Insert and non-melting
Soft Texture	Ensures the correct operation of spring loaded seals
Solid Lubricant Package	Provides superb extreme pressure protection and superior leak sealing ability
Advanced anti-corrosion Additives	Protects metal surfaces from deterioration which can develop into leak pathways

Typical Characteristics

Appearance	Visual	Smooth, adhesive
Thickener		Inorganic (non-soap)
Temperature Range		-25°F to 450°F
Penetration at 25°C	IP 50	310-340
Drop Point	IP 396	Non-melting
4-Ball Weld Load	IP 239	>620kg
Minimum Pumpable		-10°F
Sealing Capability		0.1mm at 10,000 psi

Base Oil Characteristics

Type		Synthetic
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Resistance

- Acids & glycols
- Crude oil, natural gas, condensate, LPG
- Diesel fuel
- H₂S & CO₂
- Salt water/brines
- Sand & drilling muds
- Steam

* Pumpability temperature ranges refer to reasonable flow rates when using the Alemite 70:1 pump system (RS Clare configuration)