

OIL & GAS

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TECHNICAL DATA SHEET

Product Code: D0115
Quality Standards:
ISO 9001:2015
ISO 14001:2015
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Revision—03

ClareTech PVS

Synthetic plug valve lubricant and sealant
NLGI 3

Description

ClareTech PVS is a specifically formulated valve lubricant and sealant based on a fully synthetic oil with an advanced corrosion inhibition system and an inorganic thickener. It has superior sealing ability compared to other premium valve lubricants and excellent surface adhesion due to an extra thick base oil.

ClareTech PVS contains special extreme pressure and anti-wear additives and combined with a base oil of very high film strength, displays excellent lubricating properties and protection.

Furthermore, unlike most greases that drastically soften on mixing with water, ClareTech PVS has been designed to be water resistant, making it very suitable in high water-cut applications.

Applications

ClareTech PVS is particularly suitable for use in plug valves in crude oil and natural gas service. It can also be used where sour crude, sour gas, sand slurries and difficult condensates are encountered.

ClareTech PVS can also act as a reliable lubricant and sealant for ball valves.

Features and Benefits

- Enhanced ability to seal worn/damaged valves in service
- Highly adhesive, will remain in the valve cavity under high pressure conditions
- Easily pumpable and provides excellent coating and protection to the valve internal components
- Water resistant technology
- Minimises valve torque
- Highly chemically resistant
- Highly resistant to oxidation—Will not harden in storage or in use

Typical Characteristics

Appearance	Visual	Slightly grainy, adhesive
Colour	Visual	Black
Thickener		Inorganic (non-soap)
Temperature Range		-10°F to 350°F
Penetration at 25°C	IP 50	205-235
Drop Point	IP 396	Non-melting
4-Ball Weld Load	IP 239	>400kg
Water Spray Off	ASTM 4049	>98% retained

Base Oil Characteristics

Type		Synthetic oil
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Resistance

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

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