LUBCHEM SPECIALTIES

Technical Data Sheet

MAGNASEAL Gen IV

DESCRIPTION

Magnaseal Gen IV is a high-performance, high-tack lubricant and sealant specifically engineered for gate and plug valves in demanding frac applications. Formulated to withstand extreme operational conditions, it delivers exceptional resistance to shear and washout from turbulence, flow improvers, breaker fluids, co-solvents, dilute acids, caustics, and hydrocarbons.

Compounded with advanced performance additives, Magnaseal Gen IV provides superior friction reduction, anti-wear, antioxidation, and extreme pressure (EP) properties, ensuring reliable valve operation and extended service life. Its high-tack, pumpable consistency enables seamless application and robust sealing, optimizing lower-torque performance in gate and plug valves.

APPLICATIONS

Magnaseal Gen IV is expertly formulated for gate and plug valves in frac operations and pressure control applications, delivering robust, reliable sealing and lubrication under extreme conditions.

Ideal for environments requiring exceptional resistance to shear, washout, and harsh chemicals, ensuring optimal valve performance and operational efficiency.

INTRODUCING

Introducing Magnaseal Gen IV PFAS-Free: A high-biodegradability variant designed for environmentally sensitive applications, offering the same high-performance lubrication and sealing properties without per- and polyfluoroalkyl substances (PFAS).

MAGNASEAL
MAXIMUM SEAL MINIMUM TORQUE

ADVANTAGES & BENEFITS

- **High-Tack Formula:** Provides superior adhesion and sealing under high-pressure environments, maintaining valve integrity.
- **Shear and Washout Resistance:** Resists degradation from turbulence, hydrocarbons, flow improvers, breaker fluids, co-solvents, dilute acids, and caustics.
- **Performance Additives:** Enhances friction reduction, anti-wear, antioxidation, and extreme pressure (EP) properties for extended valve life and efficiency.
- **Lower Torque Operation:** Enables smoother valve actuation, reducing operational torque and improving performance.
- **H2S and CO2 Inhibition:** Formulated to withstand corrosive hydrogen sulfide (H2S) and carbon dioxide (CO2) environments.
- **Acid Service Inhibition:** Engineered for compatibility with acidic conditions, ensuring durability in harsh chemical exposures.
- **High Metal Adhesion:** Bonds effectively to metal surfaces, enhancing sealing and lubrication performance.
- **Biodegradable:** PFAS-free option available, offering higher biodegradability for environmentally sensitive applications.
- **Water Insoluble:** Maintains performance in wet conditions, resisting washout and ensuring consistent lubrication and sealing

HEALTH & SAFETY

This product is not anticipated to pose any adverse health risks when used as intended.

For additional details, refer to separate Safety Data Sheets, available upon request.

TECHNICAL DATA/TECHNICAL PROPERTIES

PROPERTIES	MagnaSeal Gen IV	MagnaSeal Gen IV (PFAS – Free)
Color	Yellow	Yellow
Temperature Range, F	-20 to 400	-20 to 400
Grease Penetration, ASTM D-217	NLGI 2	NLGI 2
4-Ball EP, ASTM	400	350
4-Ball Wear, ASTM	0.500	0.400
Copper Corrosion	1B Min	1B Min
Thickener	Inorganic	Inorganic
Product Code	MSGIV	MSGIVPF

*All properties are typical and may vary.

Always adhere to the manufacturer's guidelines for the correct equipment fluid. Lubchem Specialties is not liable for any misuse of the product or improper application.

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