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Technical Date Sheet

HP Complex Lithium Grease

Product Introduction

This product is manufactured by thickening high-viscosity mineral base oil blend with complex lithium soap, and adding high-quality antioxidant, rust inhibitor and extreme pressure (EP) anti-wear additives.

Examples of Application

- Suitable for medium-high temperature, heavy load, vibration, humid and dusty working conditions, mainly used for lubrication of bearings, hinge pins and other friction pairs of heavy-duty vehicles, construction machinery, metallurgical equipment and general industrial equipment.
- Operating Temperature Range: -20°C ~ 160°C.

Features and benefits

- Excellent high temperature resistance: High dropping point formula, long-term service temperature -20°C ~ 160°C, short-term peak temperature 180°C, no coking or loss at high temperature.
- Good mechanical stability: Resists shear and thinning, maintains stable grease structure under vibration and impact conditions for long-term lubrication without loss.
- Outstanding heavy-load anti-wear performance: Formulated with dedicated EP additives, it can withstand heavy load and impact load, and reduce equipment wear.
- Reliable water and corrosion resistance: Resists water washout and emulsification, maintains stable performance in humid conditions, and effectively prevents corrosion of metal parts.
- Strong adhesion: High-viscosity base oil forms a stable lubricating film, which is not easy to splash off and cause dry friction during high-speed operation.



TESTING ITEMS	TYPICAL DATA			TESTING METHOD
NLGI Grade	1	2	3	NLGI Classification
Appearance	Blue	Blue	Blue	Visual
Worked Cone Penetration, 0.1mm	328	282	242	ASTM D217
Dropping Point, °C	266	271	272	ASTM D2265
Kinematic Viscosity @40°C, mm²/s	260	260	260	ASTM D445
Oil Separation (100°C, 24h), %	3.9	2.9	2.2	ASTM D6184
Evaporation Loss (99°C, 22h), %	1.8	1.8	1.8	ASTM D972
Water Washout Loss (38°C, 1h), %	7.2	5.8	4.5	ASTM D2266
Copper Corrosion (100°C, 24h)	1b Class	1b Class	1b Class	ASTM D130
Four-Ball Welding Load (PD/N)	2500	2500	2500	ASTM D2783

* Instructions for use:

Do not mix with other types of greases to prevent structural damage and performance failure of grease.

Clean the residual old grease before refilling. The bearing filling quantity is recommended to be 1/3~1/2 to avoid overheating caused by excessive filling.

All listed data are typical laboratory values for product selection reference only. Actual performance shall be subject to on-site operating conditions.