

UNITED LITHIUM COMPLEX GREASE (BLACK)

Product Description

Lithium Complex Grease (Black) formulated with a lithium complex soap thickener and high-viscosity mineral base oil, premium solid additives, which provide enhanced protection under severe vibrating and oscillating conditions. The high base oil viscosity supports the formation of a strong lubricating film even under high-temperature conditions.

The grease delivers excellent extreme pressure and anti-wear performance, effectively protecting heavily loaded and shock-loaded bearings while extending equipment life. Its high dropping point allows reliable operation in elevated temperatures ranging from -10°C to $+150^{\circ}\text{C}$, while superior mechanical stability ensures the grease maintains its structure during service. In addition, it offers outstanding water resistance to prevent washout in wet environments, along with excellent rust and corrosion protection. Good thermal and oxidation stability further enhance grease life, reducing maintenance frequency and ensuring consistent performance in demanding applications such as mining, construction equipment, and other heavy-duty operations.

Applications / Benefits

- * Good thermal and oxidation stability
- * Effective rust and corrosion protection
- * Superior mechanical stability
- * Excellent extreme pressure and anti-wear performance

Typical Characteristics

Test Description	Method	Unit	
NLGI Grade	SAE J 300	-	2
Base Fluid	-	Type	Mineral
Thickener	-	Type	Lithium
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	410
Cone Penetration, Wx60	ASTM D 217	mm-1	275
Dropping Point	ASTM D 2265	$^{\circ}\text{C}$	273
Oil Separation, 24H @ 100°C	FTMS 791C-	%	1
Four Ball Wear, 60 min @ 392N	ASTM D 2266	mm	0.45
Four Ball EP, Weld Point	ASTM D 2596	N	3924
Timken OK Load	ASTM D 2509	N	222
Copper Corrosion, T2 Copper	ASTM 4048	rating	pass
Water Washout, 1H @ 38°C	ASTM D 1264	%	1
Appearance	-	Visual	Black

Specifications, Approvals & Recommendations

* SINOPEC Q/SH3031 0102

Reference No.
LECPG2S2GREASELITCOMPBREV

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