

MULTIS COMPLEX HV MOLY



Grease



Extreme pressure and high temperature lithium complex grease with molybdenum disulfide.

APPLICATIONS

Multi purpose
High temperature

Heavy duty EP grease

- **MULTIS COMPLEX HV** is designed for the lubrication of various applications in all types of operating conditions, but particularly where the loads and operation temperature are high and the use of conventional lithium greases is limited.
- **MULTIS COMPLEX HV** is a true multi purpose grease formulated for lubrication of loaded slide-bearings, ball-bearings, roller-bearings, wheel-bearings, universal joints, chassis and various shock loaded, high temperature or vibrating applications in transport, agriculture and off road vehicles.
- **MULTIS COMPLEX HV** provides a superior protection to equipment exposed to severe conditions. It is fortified with molybdenum disulfide, known for its excellent lubricating properties and its ability to coat metal surfaces as a protection against wear.

PERFORMANCES

- With dropping points of more than 550°F (288°C), both grades can be used at temperatures up to 100°F (40°C) higher than conventional multipurpose lithium greases.
- In case of accidental overheating, the presence of molybdenum disulfide will guarantee proper lubrication and avoid equipment seizure.
- They are formulated in Summer and Winter Grades for use between -10°F and 400°F (-23°C and 205°C) in low to high speed operations.

CUSTOMER BENEFITS

High Film Strength

High Load Capacity

MOLY protection

Excellent Water Resistance

Outstanding Rust and
Oxidation Protection

Excellent Mechanical Stability

Excellent Reversibility

Excellent Pumpability

- Positive lubrication and wear protection because tacky and adhesive lubricant film stays in place, resisting wipe off or squeeze out at high speeds and loads.
- Effective extreme pressure (EP) and antiwear protection prevents scoring, scuffing, and seizure of moving surfaces under heavy loads, shock loads, or overloads.
- Molybdenum disulfide coats metal surfaces for additional protection against destructive sliding friction and wear in especially severe applications.
- Strongly adherent lubricant film resists wash-off and throw-off.
- Provides a better rust protection and longer oxidation protection.
- Retain their structure and consistency even after severe mechanical working.
- Does not change hardness after repeated heating and cooling cycles.
- Both Summer and Winter Grades can be pumped in industrial central lubricating systems, and are easily dispensed from bulk handling and storage facilities.

TOTAL LUBRIFIANTS CANADA
220, Avenue Lafleur
Lasalle (Qc) H8R4C9
1/ 2

MULTIS COMPLEX HV
Sheet updated: 07/2008

This lubricant used in accordance with our recommendations and for the application for which it is intended does not represent a special hazard. A safety data file conforming to the requirements of current E.C. legislation is available from your local trade consultant and downloaded from <http://www.quick-fds.com>

CHARACTERISTICS

MULTIS COMPLEX HV	ASTM Method	1 (WINTER)	2 (SUMMER)
Product Code		6151	6177
NLGI Grade	D217	1	2
Penetration, worked 60°F	D217	325	288
Soap Type	D128	Lithium Complex 3% Moly	Lithium Complex 3% Moly
Dropping Point, °F (°C)	D2265	297 (567)	306 (583)
Rust Test	D1743	Pass (1,1,1)	Pass (1,1,1)
Water Wash-Out @ 175°F, %	D1264	7.2	4.0
Water Spray Off, % Loss	D4049	15.6	13.4
4-Ball scar, mm	D2266	0.45	0.40
4-Ball Weld, kg	D2596	500	500
Useful Temperature, °C		-23 to 204	-23 to 204
°F		-10 to 400	-10 to 400
Timken OK Load, lb (kg)	D2509	70 (31)	70 (31)
Color	Visual	Moly Grey	Moly Grey
Texture	Visual	Very Tacky	Very Tacky
NLGI Certification		GC/LB	GC/LB
Base Oil Data:			
Viscosity, cSt @ 40°C	D445	145	145
Viscosity, cSt @ 100°C	D445	14.2	14.2
Viscosity Index	D2270	92	92
Pour, °C (°F)	D97	-20 (-4)	-20 (-4)

The typical characteristics mentioned represent mean values.

Recommendation

- Always avoid contamination of the grease by dust and/or dirt when applying.
- Preferably use a pneumatic pump system or cartridges.