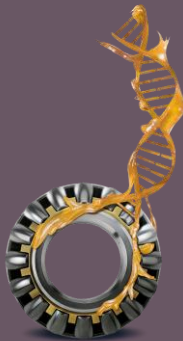




MULTIS MINE RANGE



Mining grease range
containing 5% of solid additives



APPLICATIONS

MULTIS MINE are multipurpose greases developed especially for all mining equipment:

- Dump trucks
- Excavators
- Rope shovels
- Draglines
- Graders
- Drills
- ...etc

PRODUCT DESCRIPTION

MULTIS MINE range is especially designed to handle the lubrication demands of equipment used in the mining industry. It is recommended for slow moving plain and heavily loaded rolling element subject to shock loads and high temperature as well as swing gears.

MULTIS MINE are extreme pressure and anti-wear greases containing 5% of solid additives consisting of 3% MoS₂ and special friction modifiers to boost the performances of the grease during operations. They also have **exceptional adhesive** performances and extended service capabilities.

MULTIS MINE demonstrates **excellent pumpability** to ensure adequate lubrication of all parts of the equipment across all NLGI grades.



CUSTOMER BENEFITS

MULTIS MINE greases are designed to increase the productivity of operations and protect equipment in the most severe conditions.

Thanks to carefully chosen additives the **MULTIS MINE** only need **3% of MoS₂** to pass the OEM specification of 620 kg on the ASTM D 2596 four ball test.

Temperature range ensuring good injector operation



MULTIS MINE 680-2
460-2

MULTIS MINE 680-1
460-1

MULTIS MINE 460-0

TECHNICAL DATA – MULTIS MINE

PROPERTIES*	METHODS	UNITS	460-0	460-1	460-2	680-1	680-2
Thickener		-	Lithium				
NLGI grade	ASTM D 217	-	0	1	2	1	2
Color/Aspect	Visual	-	Black/Smooth				
Base oil viscosity at 40°C	ASTM D 445	mm ² /s	460			680	
Dropping Point	IP 396/DIN ISO 2176	°C	>150	>170	>190	>170	>190
SKF EmCor test distilled water	DIN 51 802	rating	0-0				
Copper corrosion	ASTM D 4048	rating	1b				
4 ball wear	ASTM 2266	mm	0.5				
4 ball weld load	ASTM D 2596	kgf	≥620				
Water resistance	DIN 51807-1	-	1-90				
Lincoln Ventmeter at 20°C	Average pressure after 30s	psi	<75	213	313	261	391
Flow pressure 1400 mbar	DIN 51805	mbar	-32°C	-28°C	-24°C	-26°C	-20°C

*The results reported in the table above are averages values communicated for information purpose only.

SPECIFICATIONS	ISO 6743-9	L-XCCHB0	L-XBCHB1	L-XBCHB2	L-XBCHB1	L-XBCHB2
	DIN 51502	KP0K P-30	KP1K P-25	KP2K P-20	KP1K P-25	KP2K P-20

Approvals & Recommendation

Epecially recommended for

LIEBHERR specifications
P1, P2, P3 and OHT

CAT/Bucyrus SD 4711
CAT Multipurpose 3% Moly
requirement

P&H
Komatsu
Hitachi
Volvo

Epiroc
Sandvik
JCB
Atlas Copco

ADVANTAGES

MULTIS MINE are multipurpose greases suitable for various types of equipment (pin and bushes, bearings, etc...) allowing miners to rationalize products stored on site, thereby limiting the possible misuse of greases and ensuring smoother mining operations.

MULTIS MINE improve the durability of all mining equipment from the pit to the plant, leading to significant reduction of downtime and mining costs.

COMPATIBILITY

MULTIS MINE are compatible with other TOTAL greases: CERAN, MULTIS and MULTIS COMPLEX.

Packaging

- Bulk
- Fluid bags
- 180kg
- 18 kg

Total Lubrificants
INDUSTRY & SPECIALITIES
01/2021
MULTIS MINE

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. is obtainable via your commercial adviser <http://sdstotalms.total.com>



lubricants.total.com