

MULTIS COMPLEX EP 2



Lubricating grease



Multi purpose extreme pressure high temperature lithium complex grease.

APPLICATIONS

Multi purpose medium duty EP grease
General Lubrication

Recommendation

- **MULTIS COMPLEX EP 2** is designed for the lubrication various applications in all types of operating conditions, but particularly where the operation temperature is high and the use of conventional lithium greases is limited.
- **MULTIS COMPLEX EP 2** is a true multi purpose grease, formulated for lubrication of loaded slide-,ball-, and roller-bearings, wheelbearings, universal joints, chassis, and various shock loaded or vibrating applications in transport, agriculture and off road vehicles.
- Suitable as general purpose grease for industrial applications requiring a NLGI 2 grade Extreme Pressure grease, resistant to elevated temperatures.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

SPECIFICATIONS

- ISO 6743-9: L-XBEHB 2
- DIN 51502: KP2P- 20

ADVANTAGES

Extensive application range
Durable film
Mechanical stability
Thermal stability
Miscible
No harmful substances

- Thanks to its sophisticated formulation **MULTIS COMPLEX EP 2** meets a wide variety of requirements. Its range of applications is extensive, allowing stock rationalization and simplification of maintenance..
- Fulfills the requirements of most automotive Original Equipment Manufacturers.
- Forms a lubricating film which is durable, and resistant to humidity, temperature variations and pollution, and hence reduces maintenance and costs.
- Miscible with most other conventional soap greases.
- **MULTIS COMPLEX EP 2** does not contain lead, or other heavy metals considered harmful to human health and the environment.

TYPICAL CHARACTERISTICS	METHODES	UNITS	MULTIS COMPLEX EP 2
Soap/thickener		-	Lithium complex
NLGI grade	ASTM D 217/DIN 51 818	-	2
Color	Visual	-	Red
Appearance	Visual	-	Smooth
Operating temperature range		°C	-20 to 160
Penetration at 25°C	ASTM D 217/DIN51 818	0.1 mm	265-295
Four ball weld load	DIN 51 350-4	daN	280-300
Anti-rust performance SKF- EMCOR	DIN 51 802/IP220/NFT 60-135/ISO 11007	rating	0-0
Dropping point	IP 396/DIN ISO 2176	°C	>275
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/IP71	mm ² /s (cSt)	165

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
04-03-2004 (supersedes 04-07-2001)
MULTIS COMPLEX EP 2
1/1



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 www.quick-fds.com.

MULTIS COMPLEX EP 3



Lubricating grease

Multi purpose extreme pressure high temperature lithium complex grease.

APPLICATIONS

Multi purpose medium duty EP grease
General Lubrication

Recommendation

- **MULTIS COMPLEX EP 3** is designed for the lubrication various applications in all types of operating conditions, but particularly where the operation temperature is high and the use of conventional lithium greases is limited.
- **MULTIS COMPLEX EP 3** is a true multi purpose grease, formulated for lubrication of loaded slide-,ball-, and roller-bearings, wheelbearings, universal joints, chassis, and various shock loaded or vibrating applications in transport, agriculture and off road vehicles.
- Suitable as general purpose grease for industrial applications requiring a NLGI 3 grade Extreme Pressure grease, resistant to elevated temperatures.
- Always avoid contamination of the grease by dust and/or dirt when applying. Preferably use a pneumatic pump system or cartridges.

SPECIFICATIONS

- ISO 6743-9: L-XBDHB 3
- DIN 51502 : P3N-20

ADVANTAGES

Extensive application range
Durable film
Mechanical stability
Thermal stability
Miscible
No harmful substances

- Thanks to its sophisticated formulation **MULTIS COMPLEX EP 3** meets a wide variety of requirements. Its range of applications is extensive, allowing stock rationalization and simplification of maintenance..
- Fulfills the requirements of most automotive Original Equipment Manufacturers.
- Forms a lubricating film which is durable, and resistant to humidity, temperature variations and pollution, and hence reduces maintenance and costs.
- Miscible with most other conventional soap greases.
- **MULTIS COMPLEX EP 3** does not contain lead, or other heavy metals considered harmful to human health and the environment.

TYPICAL CHARACTERISTICS	METHODES	UNITS	MULTIS COMPLEX EP 3
Soap/thickener		-	Lithium complex
NLGI grade	ASTM D 217/DIN 51 818	-	3
Color	Visual	-	Dark brown
Appearance	Visual	-	Smooth
Operating temperature range		°C	- 20 to 160
Penetration at 25°C	ASTM D 217/DIN51 818	0.1 mm	220-250
Four ball weld load	DIN 51 350-4	daN	280-300
Anti-rust performance SKF- EMCOR	DIN 51 802/IP220/NFT 60-135/ISO 11007	rating	0-0
Dropping point	IP 396/DIN ISO 2176	°C	> 240
Kinematic viscosity of the base oil at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/IP71	mm ² /s (cSt)	165

Above characteristics are mean values given as an information.

TOTAL LUBRIFIANTS
Industrie & Spécialités
04-03-2004
MULTIS COMPLEX EP 3
1/1



This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
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