

# MULTIS COMPLEX SHD 100



Lubricating Grease



Synthetic high-performance complex lithium soap and Extreme-pressure grease.

## APPLICATIONS

Synthetic grease for high speed applications  
Medium to heavy loads

Recommended for severe applications

Low temperature

- **MULTIS COMPLEX SHD 100** is a special complex lithium grease designed for high speed applications such as electromotors and fans where a long service life is required.
- **MULTIS COMPLEX SHD 100** is particularly developed for the lubrication of bearings working in extreme cold conditions. It is mechanically stable and still workable down to -50°C and up to 160°C. It protects also bearings from fretting corrosion.
- **MULTIS COMPLEX SHD 100** is adapted for the lubrication in equipment under wet conditions and helps to reduce significantly friction between metal surfaces and hence reduce vibrations.
- **MULTIS COMPLEX SHD 100** is also suitable to lubricate thermoplastic materials.
- **MULTIS COMPLEX SHD 100** is recommended for temperatures between -50°C and +160°C.

## SPECIFICATIONS

- ISO 6743-9: L-XEEHB 2
- DIN 51502: KP2P- 50

## ADVANTAGES

Very varied applications

Performances in service of the lubricating film

Miscibility

Lengthened lubrication frequency  
Increased service life of bearings

Harmful substances free

- **MULTIS COMPLEX SHD 100** meets the lubrication requirements for very different types of equipment. Its low traction coefficient makes it possible to anticipate energy gains and an increase in the service life of the bearings.
- Miscible with most conventional soap greases (consult TOTAL Lubrifiants).
- Very good resistance to water, variations in temperature and pollution. Permits longer lubrication intervals.
- **MULTIS COMPLEX SHD 100** contains no lead or any other heavy metal deemed harmful to human health or environment.

TYPICAL CHARACTERISTICS	METHODS	UNITS	MULTIS COMPLEX SHD 100
Thickener		-	Complex Lithium
Grade NLGI	ASTM D 217/DIN 51 818	-	2
Colour	Visual	-	Yellow
Appearance	Visual	-	Smooth
Temperature range		°C	- 50 to +160
Penetration at 25 °C	ASTM D 217/DIN51 818	0.1 mm	265-295
Penetration at -40°C	NF T 60 171 mod.	0.1 mm	> 160
Low temperature Torque at -40°C	ASTM D 1478	mNm	
Starting torque			383
Running torque			51
Mechanical stability P100,000 – P60	ASTM D 217/DIN51 818	0.1 mm	23
Antirust performance	ASTM D 1473	Rating	pass
4-ball weld load	ASTM D 2596	kgf	> 315
4-ball wear	ASTM D 2266	mm	0,5
Dropping point	IP 396/NFT 60 102 C	°C	> 280
Base oil viscosity at 40 °C	ASTM D 445/DIN 51 562-1/ISO 3104/ IP71	mm <sup>2</sup> /s (cSt)	100

Above characteristics are mean values given as an information

TOTAL LUBRIFIANTS  
Industrie & Spécialités  
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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](http://www.quick-fds.com).