

# MULTIS COMPLEX SHD 220



Lubricating Grease



Synthetic high-performance lithium complex, Extreme-pressure grease.

## APPLICATIONS

Extreme-pressure grease  
Medium to heavy loads

Recommended for heavy duty  
applications

Wide temperature range

- **MULTIS COMPLEX SHD 220** is a very high performance synthetic grease recommended for the lubrication in all industrial applications under severe conditions and more especially designed in case of high temperature applications in which a lithium grease or a conventional complex lithium grease is not sufficient.
- **MULTIS COMPLEX SHD 220** is a grease offering an excellent protection of bearings subjected to high loads and slow to moderate rotational speeds. Is also suitable for applications under wet conditions. Could be used in case of plastic contacts.
- **MULTIS COMPLEX SHD 220** is especially designed for dry section in papermaking industry, in particular felt rolls. Moreover, the low volatility of the synthetic base oil together with the excellent high temperature properties enable maximization of the lubrication intervals.
- **MULTIS COMPLEX SHD 220** 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 220** meets the lubrication requirements for very different types of equipment.  
It slow 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 220** contains no lead or any other heavy metal deemed harmful to human health or environment.

TYPICAL CHARACTERISTICS	METHODS	UNITS	MULTI COMPLEX SHD 220
Thickener		-	Complex Lithium
NLGI Grade	ASTM D 217/DIN 51 818	-	2
Color	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
Dropping Point	IP 396/DIN ISO 2176	°C	> 275
Water Wash-Out	ASTM D1264	% poids	5
Flow pressure 1400 mbar	DIN 51805	°C	< -50°C
Flow pressure at -40 °C	DIN 51805	mbar	550
Flow pressure at -50 °C	DIN 51805	mbar	1125
Starting torque at -40°C	ASTM D1478	mN.m	274
Penetrability at -40°C	NFT 60 171	0.1 mm	129
SKF- EMCOR Antitrust performances	DIN 51 802/IP220/NFT 60-135/ISO 11007	cotation	0 – 0
4-ball EP	ASTM D2596	Kgf	400
Base oil viscosity at 40°C	ASTM D 445/DIN 51 562-1/ISO 3104/IP71	mm <sup>2</sup> /s (cSt)	220

Above characteristics are mean values given as an information

TOTAL LUBRIFIANTS  
Industrie & Spécialités

03-09-2010 (supersedes 14-05-2008)

MULTIS COMPLEX SHD 220

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Ce lubrifiant utilisé selon nos recommandations et pour l'application pour laquelle il est prévu ne présente pas de risque particulier.

Une fiche de données de sécurité conforme à la législation en vigueur dans la C.E. est disponible sur [www.quick-fds.com](http://www.quick-fds.com) et auprès de votre conseiller commercial.