

# Product Data Sheet

## Mobilgear SHC 3200 & 6800 High Technology, Very High Viscosity, Synthetic Gear Oils

### Product Description

Mobilgear SHC 3200 and Mobilgear SHC 6800 are extra-heavy-duty, speciality high viscosity lubricants primarily intended for use in heavily loaded, low speed gears and bearings where boundary lubrication conditions may prevail.

Mobilgear SHC 3200 and Mobilgear SHC 6800 are formulated from wax-free synthetic base stocks which have exceptional thermal oxidation properties and excellent low-temperature fluidity. The combination of a naturally high viscosity index and a unique additive system enables these products to provide outstanding performance under severe high and low temperature operating conditions. The base stocks have inherently low traction properties which result in low fluid friction in the load zone of non-conforming surfaces such as gears. Reduced fluid friction produces lower oil operating temperatures and improved gear efficiency.

Mobilgear SHC 3200 and Mobilgear SHC 6800 do not contain solvent.

### Benefits

Mobilgear SHC 3200 and Mobilgear SHC 6800 offer the following benefits:

- Extended gear life resulting from outstanding load carrying, antiwear and tackiness properties derived from proprietary thick film lubrication.
- Reduction in pump replacement costs due to their pumpability at ambient temperature.
- Improved gear efficiency and lower operating temperatures arising from low traction properties.
- Reduced lubricant consumption and disposal costs.
- Improved safety through absence of solvent.

### Application

Mobilgear SHC 3200 and Mobilgear SHC 6800 are specially designed for use in both new and retrofitted enclosed gear designs and are recommended for all kinds of enclosed gears as well as plain and roller bearing elements, where their high viscosities are relevant.

## Health and Safety

Based on available toxicological information, it has been determined that these products pose no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Typical Characteristics

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	Test Method	Mobilgear SHC 3200	Mobilgear SHC 6800
ISO VG	-	3200	6800
Viscosity, cSt at 40°C	ASTM D445	3023	8031
Viscosity, cSt at 100°C	ASTM D445	171	357
Viscosity Index	ASTM D2270	160	180
Specific Gravity	ASTM D1298	0.888	0.897
Flash Point, °C	ASTM D92	220	220
Pour Point, °C	ASTM D97	-20	-15
Rust Protection, Distilled Water	ASTM D665	Pass	Pass
Rust Protection, Synthetic Sea Water	ASTM D665	Pass	Pass
Copper Corrosion	ASTM D130	1A/1B	1A/1B
Timken OK Load, kg	ASTM D2509	26.7	26.7
FZG Gear Test, Fail Stage	DIN 51354	12+	12+
4-Ball Wear, Scar mm	ASTM D2266	0.30	0.30
4-Ball Weld Load, kg	ASTM D2596	250	250
Colour	ASTM D1500	0.5	0.5

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Due to continual product research and development, the information contained herein is subject to change without notice.

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