

# Product Data Sheet

## Mobilgear 600 Series Heavy Duty Industrial Gear Lubricants

### Product Description

Mobilgear 600 Series oils are a range of premium quality heavy duty industrial gear lubricants made from solvent refined high quality paraffinic mineral oils and an unleaded load carrying additive. They also contain oxidation, rust, foam and emulsion inhibiting additives.

Available in seven viscosities they are branded Mobilgear 626, 627, 629, 630, 632, 634 and 636.

### Benefits

Mobilgear 600 Series oils offer the following benefits:

- Longer oil life resulting from reduced oxidation and oil degradation - and lower bulk oil temperatures
- Reduced tooth wear due to excellent load carrying properties
- Increased protection against rust and copper and bearing metal corrosion
- Good lubrication in presence of water due to marked resistance to emulsion formation and marked resistance to foaming
- Smaller gear cases can be used for given transmission loads
- Reduced power consumption due to lower coefficient of friction
- Reduced inventories due to wide range of application
- Lead free additive technology reduces health and environmental hazards
- Reduced maintenance and repair costs give improved operating profit

### Applications

Mobilgear 600 Series oils are recommended for industrial enclosed gears with circulation or splash lubrication operating at bulk oil temperatures up to 110°C. Minimum bulk oil temperatures are governed by the Pour Point.

These oils can also be mixed satisfactorily, but a suitable heater will be necessary for the heavier grades at ambient temperature and also for the lighter ones below 18°C.

Non-gear applications for Mobilgear 600 Series oils include shaft couplings, screws and heavily loaded plain bearings operating at slow speeds.

Note: For worm gears operating at bulk oil temperatures above 95°C - Mobil Glygoyle or Mobil SHC 600 Series products should be used.

### Properties

Mobilgear 600 Series oils have outstanding load carrying properties - extreme pressure characteristics and resistance to metallic wear. They all have a Timken pass load of 65 lbs.

These oils possess an extremely high level of resistance to oxidation and chemical degradation to keep gear cases, reservoirs and circulation systems free from sludge and deposits even at high bulk oil temperatures. This gives very long service life. They have friction modifying characteristics which reduce power consumption and lower bulk oil temperatures to reduce oxidation further.

Mobilgear 600 Series oils protect against copper corrosion and rusting in both liquid and vapour phases. Their water separating properties are excellent and they strongly resist foaming in service.

## Health and Safety

Based on available toxicological information, it has been determined that this product poses 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.

## Product Characteristics

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<b>Mobilgear</b>	<b>626</b>	<b>627</b>	<b>629</b>	<b>630</b>	<b>632</b>	<b>634</b>	<b>636</b>
ISO Viscosity Grade	68	100	150	220	320	460	680
Viscosity, cSt at 40 °C	68	100	150	220	320	460	680
Viscosity, cSt at 100 °C	8.5	11.2	14.2	18.1	23.0	28.5	34.7
Viscosity Index	91	91	91	91	91	98	83
Pour Point, °C	-24	-24	-21	-18	-12	-6	-6
Flash Point, °C COC	204	208	210	216	232	232	232

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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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