

# Product Data Sheet

## Mobiltemp 78 High Temperature Grease

### Product Description

Mobiltemp 78 is a smooth, medium consistency lubricating grease made from a heavy viscosity solvent refined mineral oil and a non soap type thickener to provide lubrication for plain and rolling element bearings working at temperatures higher than the operational range of conventional soap type products.

Mobiltemp 78 contains a small percentage of molybdenum disulphide.

### Benefits

Mobiltemp 78 offers the following benefits:

- Wide range of operating temperatures reduces inventories
- Good pumpability renders greases suitable for high temperature centralised systems
- Elimination of high temperature leakage improves housekeeping and reduces hazards
- Lower maintenance costs and increased production capacity improves operating profit

### Applications

Mobiltemp 78 is recommended primarily for use in plain and rolling element bearings operating in the 120°C to 180°C range and for short periods at temperatures up to 200°C. At these upper temperatures regular relubrication should be undertaken to maintain product performance.

Mobiltemp 78 is compatible with all conventional soap type greases and although mixtures will give adequate lubrication, the high temperature properties will not be entirely available until all traces of the conventional soap type grease have been completely purged from the bearing.

Mobiltemp 78 is particularly recommended for applications subject to limited motion or fretting corrosion as in components such as conveyor bearings on high temperature drying ovens, rotary steam joints and bearings subject to very adverse temperature conditions.

### Properties

Mobiltemp 78 retains its consistency at high temperatures and has no drop point in the normal sense of the test. It does not change materially in consistency under conditions of working or temperature cycling and so resists leakage and dripping from bearing housings.

This type of grease has a marked resistance to oxidation and deterioration at high temperatures and resists the formation of harmful products.

Mobiltemp 78 provides good protection against rusting and will absorb its own weight in water without appreciably changing consistency.

It's also very resistant to the effect of mild alkali or acid washes whether hot or cold.

The excellent properties of Mobiltemp 78 make it suitable for use in some centralised systems.

## 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>Test Method</b>	<b>Mobiltemp 78</b>
NLGI Grade	ASTM D217	1
Thickener Type	-	Non Soap
Colour	Visual	Grey/Blue
Structure	-	Smooth
Penetration, worked	ASTM D217	325
Dropping Point, °C	ASTM D2265	260+
Viscosity of Oil, cSt at 40°C	ASTM D445	490
Viscosity of Oil, cSt at 100°C	ASTM D445	32

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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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