

Product Description

Mobiltemp R is a special purpose oven chain lubricant made from an invert water-in-oil emulsion and colloidal graphite to give a unique steam cleaning and lubricating action. This combination removes deposits, and keeps rubbing surfaces clean and lubricated under continuous difficult conditions. The mineral oil component of the emulsion is made from solvent refined paraffinic stock oils.

Mobiltemp R is recommended by Mather & Platt Ltd to lubricate the oven conveyor in their Hydrostatic Sterilising Machines.

Benefits

Mobiltemp R offers the following benefits:

- Good wetting out characteristics and coverage ensure economical rates of usage
- Provides an inert atmosphere to eliminate fire hazards caused by glowing deposits
- Coking deposits completely eliminated
- Elimination of stuck links and development of flat spots requiring increased power
- Reduced downtime for cleaning and repair

Applications

Mobiltemp R is recommended for oven conveyor lubrication where the chain links operate continuously in the 150°C to 235°C temperature range. It also provides lubrication in installations peaking intermittently to 290°C. Premature evaporation can be prevented by applying the product at the point of lowest temperature.

If applied at a lower temperature before the chain enters the oven, Mobiltemp R will soak into and soften any existing deposits. When subsequently heated the water content boils off, loosening the deposits to leave an oily graphite film to lubricate the pins.

For economical conveyor lubrication some form of centralised mechanical application is essential. This can be manually operated or on an automatically timed lubricant release basis. Mobiltemp R is easily stored, pumped and circulated in all such systems.

To obtain the best results, Mobiltemp R must be applied under pressure in a solid stream to flood pins and other sliding members, to provide the desired cleaning action and penetration into crucial lubrication areas. This also ensures that the water content in the emulsion does not evaporate prematurely.

To minimise consumption and prevent splash, maintain the lowest lubricant pressure needed to ensure directional control of the lubricant stream. Application should be periodically e.g. twice per 8 hour shift - sufficient to lubricate one complete circuit of the chain plus 10% to ensure each link is adequately lubricated.

To take full advantage of the invert emulsion used as the base fluid for Mobiltemp R, avoid drip oilers which promote premature water evaporation and reduce the steam cleaning effect. Spray application should be avoided for the same reason.

Insulate oil lines in the hot zone to prevent unnecessary water loss. At the nozzles, however, high temperatures merely cause a purging action, which tends to keep them deposit free and directionally effective.

Properties

Mobiltemp R gives a unique action which both “steam cleans” and lubricates, giving excellent performance under a wide range of conditions. When applied to hot metal the water flashes off and exerts a steam cleaning action which conditions the pins and bushes to accept an oily graphite film to reduce wear and power consumption.

The water-in-oil emulsion plays an important part in the mechanics of lubrication. As the water evaporates the fluid gets less viscous until the base oil viscosity is reached thus ensuring effective penetration.

Mobiltemp R is very stable when exposed for long periods to high temperatures incurred in some feed lines and storage tanks. It will not separate out to interfere with lubrication after extended shut down.

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

	Mobiltemp R
Specific Gravity 15/4 °C	0.925
Viscosity, cSt at 40°C	114
Water Content, %	44
Pour Point, °C max.	-30
Colour - ASTM	Grey/Black

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

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