Product Data Sheet

Mobil SHC 600 Series

Synthetic Gear and Circulation Oils

Product Description

Mobil SHC 600 Series oils are a range of premium quality gear and circulation fluids based on Mobil's synthesised hydrocarbon technology. All are fortified with a unique additive package which provides superior performance in gear, circulation and bearing applications, as well as selected compressors.
They are branded Mobil SHC 624, 625, 626, 629, 630, 632, 634 and 639.

Benefits

Mobil SHC 600 Series oils offer the following benefits:

- Hydrolitic, thermal and oxidation stability reduces deposit formation - extends product and component life
- High anti-wear protection reduces component wear and extends working life
- Superior rust and corrosion protection - extends component and product life
- Significant anti-foaming ability - reduces hazardous spillage and improves Environmental Health and Safety
- Increased oil life - reduces downtime and increases production capacity
- Low traction co-efficient - reduces energy consumption cutting energy bills
- Extremely wide operational temperature range - minus 50ºC to 180ºC
- Very high shear stable Viscosity Index - extends operational range
- Non staining colour clearly visible in sight glass
- Compatible with conventional mineral lubricants - simplifying system change over
- Longer oil life, reduced energy consumption, lower maintenance costs - all lead to increased operating profit when compared to conventional lubricants

Applications

Mobil SHC 600 Series products can be used to replace conventional mineral lubricants and find particular advantage in applications involving extremes of temperature - from at least -50°C up to +180°C dependent on grade of product used.

They are the ideal products for industrial gear sets and multi-bearing high temperature circulation systems where long service intervals are required under extreme operating conditions.

Properties

Mobil SHC 600 Series products are olefin oligomers synthesised from special olefins by a controlled polymerisation process. This produces hydrocarbon fluids with known consistent characteristics having much greater stability, when suitably inhibited, than fluids produced from crude oil by conventional methods. They have excellent high temperature and oxidation stability giving minimal deposit formation and, since undesirable waxy products are eliminated, they also have very low Pour Points.

Mobil SHC 600 Series products are chemically similar to mineral oils and are compatible with them and also with the seals, paints and materials usually associated with mineral oil systems.

These products have anti-wear characteristics to protect surfaces under boundary and start-up conditions. They also have very high Viscosity Index, good demulsibility, good rust and corrosion protection, a marked resistance to foaming and excellent air release properties.

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

Mobil SHC	**624**	**625**	**626**	**629**	**630**	**632**	**634**	**639**
ISO Viscosity Grade	32	46	68	150	220	320	460	1000
Viscosity, cSt at 40ºC	32.0	46.0	68.0	150.0	220.0	320.0	460.0	1000.0
Viscosity, cSt at 100ºC	5.9	7.9	10.4	18.4	25.8	33.8	45.8	81.7
Viscosity Index	139	146	148	149	153	155	161	161
Pour Point, ºC	-54	-51	-51	-42	-42	-42	-39	-36
Flash Point, ºC COC	240	240	243	249	249	249	249	249
Colour	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange

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

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