

Product Data Sheet

Mobil DTE Excel Series Premium High Temperature Hydraulic Oils

Product Description

Mobil DTE Excel Series are premium-quality hydraulic oils developed for use in high-speed, high-pressure piston, vane and gear pumps. They are formulated from high quality base stocks and specially selected additives, including a unique ashless anti-wear additive system developed to give exceptional corrosion protection for copper-based alloys in severe hydraulic applications such as axial piston pumps. This unique additive system also gives the Mobil DTE Excel Series very good compatibility with coolants used in metal working applications.

Mobil DTE Excel 32, 46 & 68 are approved to Denison HF-O, Vickers I-286-S & Vickers M-2952-S. They are also approved by Cincinnati Milacron against their specifications P-68, P-70 and P-69, respectively. Mobil DTE Excel 32, 46 & 68 meet the requirements of the DIN 51524 Pt 2 & ISO 11158 HM classifications.

Benefits

Mobil DTE Excel Series offer the following benefits:

- Excellent high-temperature performance and thermal stability which minimises sludge formation and deposit build-up, resulting in longer oil service life
- Superior separability from metalworking coolants, with no transfer of heavy metals to the waste water, potentially lowering waste water treatment costs
- Excellent protection against rust, corrosion and wear, leading to longer pump life and reducing downtime and maintenance costs
- Outstanding high temperature multimetal compatibility under both wet and dry conditions, protecting pumps made with steel and copper alloys
- Controlled demulsibility which allows the oil to work effectively when contaminated with small amounts of water, but separate readily from large amounts of water. Additionally, the specially selected additive package will not react to form deposits in the presence of water

Application

The Mobil DTE Excel Series are recommended for use in all types of piston, vane and gear pumps. Due to outstanding high temperature capabilities, they are especially recommended for severe applications such as plastic injection moulding, where the hydraulic oil is highly stressed.

Because of their excellent compatibility with metalworking coolants and their potential to lower the cost of waste water treatment due to the absence of heavy metals, the Mobil DTE Excel Series are recommended for use in all machine shop hydraulic applications and other applications where leaking of zinc containing hydraulic oils could result in contamination of plant effluents.

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

Mobil DTE Excel		32	46	68	100
	Test Method				
ISO VG		32	46	68	100
Viscosity, cSt at 40°C	ASTM D445	30	44	64	100
Viscosity, cSt at 100°C		5.1	6.5	8.3	11.1
Viscosity Index	ASTM D2270	98	98	98	9.7
Pour Point, °C	ASTM D97	-21	-18	-18	-15
Flash Point, °C	ASTM D92	221	214	226	230
Rust Protection, Distilled Water	ASTM D665	Pass	Pass	Pass	Pass
Foam	ASTM D892	20/0	20/0	20/0	20/0
FZG Gear Test Failure Stage	DIN 51354	12	12	12	12

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

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