

Mobil DTE Excel Series

Premium, High Performance Circulation Oils

Product Description

Mobil DTE Excel Series oils are premium-quality circulation 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 antiwear additive system developed to give exceptional corrosion protection for copper-based alloys in severe industrial applications such as axial piston pumps. This unique additive system also gives the Mobil DTE Excel Series very good compatibility with coolants used in metalworking applications.

The Mobil DTE Excel Series oils are approved in the Denison HFO pump tests, which include the Denison P46 piston pump and the new, higher severity Denison T6C vane pump. They also meet the requirements of Vickers V-104C and 35VQ25 vane pumps. Mobil DTE Excel 32, 46 and 68 are approved by Cincinnati Milacron against their specifications P-68, P-70 and P-69, respectively. Additionally, the Mobil DTE Excel Series meets or exceeds all other key builders' oil requirements and exceeds the DIN 51524-2 HLP requirements.

Features & Benefits

The Mobil DTE Excel Series oils offer the following benefits:

- Excellent high temperature performance and thermal stability which minimizes 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 multi-metal compatibility under both wet and dry conditions, protecting pumps made with steel and copper alloys
- Controlled demulsibility which allow the oil to work effectively when contaminated with small amounts of water, but separate from large amounts of water readily (additionally, the specially selected additive package will not react to form deposits in the presence of water)

Applications

The Mobil DTE Series of oils 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 molding, where the circulating 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 of oils are recommended for use in all machine shops circulation applications and other applications where leaking of zinc containing circulating oils could result in contamination of plant effluents.



Typical Properties

Mobil DTE Excel Series	22	32	46	68	100	150
Product Code	97E544	97E237	97E632	97E631	97E967	97M113
ISO Viscosity Grade	22	32	46	68	100	150
Viscosity, ASTM D 445						
cSt @ 40° C	21.0	30.0	44.0	64.0	95.0	148.0
cSt @ 100° C	4.2	5.1	6.5	8.3	10.8	12.1
Viscosity Index, ASTM D 2270	98	98	98	98	97	97
Specific Gravity, ASTM D 1298	0.86	0.87	0.88	0.88	0.89	0.90
Flash Point, °C, ASTM D 92	185	221	214	226	230	240
Pour Point, °C, ASTM D 97	-32	-21	-18	-18	-15	-15
Rust Protection, ASTM D 665, Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass
Foam Sequence I, II, III, ASTM D 892 , ml	20/0	20/0	20/0	20/0	20/0	20/0
FZG Gear Test, DIN 51534, Failure Stage	12	12	12	12	12	12

Health & Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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