



Mobil DTE Excel Series

Mobil Industrial , Japan

Hydraulic Oil

Product Description

Mobil DTE Excel™ Series oils are superior performance 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 super-stabilised additives. Their advanced technology ashless anti-wear additive system was developed to give exceptional corrosion protection for copper-based alloys in severe hydraulic applications such as high-pressure axial piston pumps. This unique additive system also gives the Mobil DTE Excel Series excellent compatibility with coolants used in metal working applications.

The Mobil DTE Excel Series oils exhibit excellent oxidation and thermal stability properties which can help to provide extended oil and filter life, as well as optimum equipment protection, thereby reducing both maintenance and product disposal costs. They were developed in conjunction with the major OEMs to meet the stringent requirements of severe hydraulic systems using high pressure, high output pumps as well as handling the critical requirements of other hydraulic system components such as close clearance servo-valves and the high accuracy numerically controlled (NC) machine tools. They are designed to work with systems operating under moderate to severe conditions where high levels of anti-wear and film strength protection are needed, yet they are formulated to work where non-anti-wear hydraulic oils are generally recommended.

Features and Benefits

The Mobil DTE Excel Series hydraulic oils exhibit outstanding high temperature performance providing an extra margin of equipment protection. Their excellent oxidation resistance and thermal stability characteristics can lead to extension of oil and filter change intervals and help to provide exceptionally clean systems and trouble-free operation. Their high level of anti-wear properties and excellent film strength characteristics can lead to exceptional equipment performance that can not only result in fewer breakdowns, but can help to improve production capacity. Their controlled demulsibility permits the oils to work well in systems contaminated with small amounts of water, yet readily separate large amounts of water readily.

Features	Advantages and Potential Benefits
Unique Ashless Anti-wear Additives	<ul style="list-style-type: none"> Reduced wear Improved coolant compatibility Protects systems using various metallurgy
Outstanding Thermal and Oxidation Stability	<ul style="list-style-type: none"> Provides long oil and equipment life Reduced deposits and sludge formation Extends filter life
Excellent Corrosion Protection	<ul style="list-style-type: none"> Prevents internal hydraulic system corrosion Reduces negative effects of moisture in systems Provides corrosion protection of multi-metallurgy component designs
Very Good Multi-metal Compatibility	<ul style="list-style-type: none"> Assures excellent performance of various components Reduces requirements for additional products
Meets a Wide Range of Equipment Requirements	<ul style="list-style-type: none"> One product can replace several Minimises inventory requirements Reduced potential for product misapplication
Controlled Demulsibility	<ul style="list-style-type: none"> Protects systems where small quantities of moisture are present Readily separates larger quantities of water

Features	Advantages and Potential Benefits
Very Good Coolant Separability	Improved coolant batch life Reduced maintenance costs

Applications

- Hydraulic systems critical to deposit build-up such as sophisticated Numerically Controlled (NC) machines, particularly where close clearance servo-valves are used
- Systems employing multi-metal designs in pumps and other system components
- Applications where cross-contamination of hydraulic fluids and coolants can occur
- High pressure vane, piston and gear pumps
- Systems where very high operating temperatures are typical
- Where small amounts of water are unavoidable
- In systems containing gears and bearings
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Applications where thin oil-film corrosion protection is an asset such as in systems containing moisture

Specifications and Approvals

This product meets or exceeds the requirements of:	32	46	68	100
DIN 51524-2:2006-09	X	X	X	X

Properties and Specifications

Property	32	46	68	100	150
Grade	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1A	1A	1A	1A	1A
Density @ 15 C, kg/l, ASTM D1298	0.8725	0.8765	0.8825	0.8845	
FZG Scuffing, Fail Load Stage, A/8.3/90, ISO 14635-1	12	12	12	12	
Flash Point, Cleveland Open Cup, °C, ASTM D92	222	226	236	230	230
Foam, Sequence I, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence I, Tendency, ml, ASTM D892	20	20	20	20	20
Foam, Sequence II, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence II, Tendency, ml, ASTM D892	20	20	20	20	20
Foam, Sequence III, Stability, ml, ASTM D892	0	0	0	0	0
Foam, Sequence III, Tendency, ml, ASTM D892	20	20	20	20	20
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	5.4	6.7	8.5	11.1	14.5

Property	32	46	68	100	150
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	32	46	68	100	150
Pour Point, °C, ASTM D97	-33	-33	-33	-24	-24
Rust Characteristics, Procedure A, ASTM D665	PASS	PASS	PASS	PASS	Pass
Viscosity Index, ASTM D2270	97	97	97	97	94

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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04-2024

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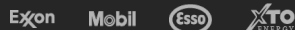
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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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