



Mobil™ Hydraulic Oil M 46

Mobil Industrial , Poland

Zinc-free and ashless hydraulic oil

Product Description

Mobil Hydraulic Oil M 46 is formulated with high quality solvent-refined base oils. It is free from ash-forming components, silicone and zinc. It exhibits very good anti-wear and corrosion protection properties, outstanding oxidation and thermal stability, small foaming tendency as well as good water separation characteristics. Mobil Hydraulic Oil M 46 exceeds the minimum requirements of the DIN 51524 part 2 HLP (1985).

Features and Benefits

Features	Advantages and Potential Benefits
Excellent anti-wear properties	Trouble-free operation
High oxidation and thermal stability	Long oil life
Free of zinc	Low impact on waste water
Free of ash-forming components	Low formation of residues during operation
Free of silicone	Trouble-free coating processes
Suitable for the lubrication of rolling and sliding bearings as well as spur gears	Allows product slate reductions
Low foaming tendency, even at high circulation rates	Trouble-free operation
Good water separation	Allows removal of water to reduce damages caused by corrosion
Compatibly with most seals	Trouble-free operation

Applications

Mobil Hydraulic Oil M 46 is particularly designed for application to Müller Weingarten hydraulic presses, meeting the specific requirements for this application. Mobil Hydraulic Oil M 46 is also suitable for modern hydraulic systems for which DIN 51524 part2 HLP (1985) quality level is required. It can be used also for the lubrication of bearings and spur gears in equipment such as machine tools.

Specifications and Approvals

Mobil Hydraulic Oil M 46 meets or exceeds the requirements of:
DIN 51524-2:2006-09

Typical Properties

Mobil Hydraulic Oil M 46	
Viscosity, ASTM D 445	

Mobil Hydraulic Oil M 46	
cSt @ 40°C	46
cSt @ 100°C	6,8
Acid Number #, mg KOH/g, ASTM D 974	0,4
Pour Point, °C, ASTM D 97	-27
Flash Point, °C, ASTM D 92	210
Load carrying capacity (Brugger), N/mm², E-DIN 51347, part 2	35
FZG, (A/8,3/90), FLS rating, DIN 51354, part 2	12

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>

All trademarks used herein are trademarks or registered trademarks of Exxon Mobil Corporation or one of its subsidiaries unless indicated otherwise.

07-2024

ExxonMobil Lubricants & Specialties Europe, division of ExxonMobil Petroleum & Chemicals BV.

This information relates only to products supplied in Europe (including Turkey) and the Former Soviet Union.

ExxonMobil Poland sp. z o.o.

Rondo ONZ 1, 12th Floor

00-124 Warsaw, Poland

You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: <https://www.mobil.pl/pl-pl/contact-us>

Tel +48 22 556 29 00

Fax +48 22 620 16 61

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

ExxonMobil is comprised of numerous affiliates and subsidiaries, many with names that include Esso, Mobil, or ExxonMobil. Nothing in this document is intended to override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entities.

ExxonMobil

Exxon Mobil Esso

© Copyright 2003-2026 Exxon Mobil Corporation. All Rights Reserved