



**Mobilgrind Series**  
Mobil Industrial , United Kingdom  
Neat honing and grinding fluids

**Product Description**

The Mobilgrind series of products are non-staining mineral oils intended for conventional and high speed grinding and honing applications across a wide range of materials and operations. The high quality base oils and select additive systems offer clear, low misting and low odor lubrication that help to improve the working environment. Mobilgrind products are designed to prevent staining of non ferrous alloys and copper tubing that are often found in grinding oil circulation systems. Mobilgrind oils separate readily from grinding swarf and components which helps to reduce drag off and waste generation. The products are readily filterable to increase surface finish accuracy. The Mobilgrind series is not formulated with any added zinc, chlorine or other materials that may require special disposal procedures.

The Mobilgrind series can be used in centralized systems or in individual machine tools.

Mobilgrind 13 is intended for light duty honing and super finishing of a wide variety of steels and other alloys. It is clear, has neutral odour and low volatility properties that help improve the working environment. Mobilgrind 13 can also be used as the dielectric fluid in Electro-Discharge Machining (EDM) applications.

Mobilgrind 14 is designed for light duty cylindrical and surface grinding of carbon and alloy steels. Formulated with high quality additives and base oils to help reduce misting and maintain viscosity at the point of application, Mobilgrind 14 helps retain accuracy in precision grinding applications. The low viscosity of the product helps fines to settle out quickly from the oil in sedimentation tanks and assists filtration of the oil for re-use in circulation systems.

Mobilgrind 24 is medium duty product for honing and grinding applications on steels of a varying hardness. It is particularly well suited for rough and finish honing of safety razor blades and for use in large volume circulation systems where continuous filtration is employed.

Mobilgrind 26 is a medium duty low viscosity fluid for finish grinding of hardened steels and other carbon alloys. Formulated with highly refined, high viscosity index base oils, Mobilgrind 26 helps ensure consistent viscosity at the point of application allowing good penetration and the efficient removal of fines from the cutting area. It can also be used for light duty machining operations where a low viscosity, low misting product is required.

Mobilgrind 36 is a medium/heavy duty product intended for finish grinding of hardened steels. It has excellent wettability to avoid burning and keep grinding wheels clean. Formulated with low viscosity, high quality base oils it is well suited for the finish grinding of precision gears, axles and other applications where a high degree of precision is required.

Mobilgrind 37 is intended for medium/heavy duty form grinding applications such as mill and drill flute grinding. It helps to minimize staining of the flutes in these high speed operations. It may also be used as a hydraulic fluid in flute grinding applications where cross contamination of the hydraulic media could affect grinding performance.

**Features and Benefits**

| Features                     | Advantages and Potential Benefits                            |
|------------------------------|--|
| Low Misting and Neutral Odor | Enhances the workplace environment and reduces product usage |
| High Degree of Filterability | Reduced product usage and increased surface finish accuracy  |
| Separates readily from swarf | Reduced product usage and ease of swarf disposal             |
| Clear and chlorine free      | Better work piece visibility and ease of disposal            |

**Specifications and Approvals**

| This product has the following builder approvals: | 13 | 14 | 24 | 26 | 36 | 37 |
|---|----|----|----|----|----|----|
| KAPP GMBH   | -  | -  | -  | -  | X  | -  |

Properties and Specifications

| Property  | 13   | 14   | 24  | 26   | 36   |
|---|------|------|-----|------|------|
| ASTM Color, ASTM D1500                                | 1.5  | 1    |     | 1    | 2    |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 |      | 1B   | 1B  | 1B   | 1B   |
| Density @ 15 C, kg/l, ASTM D4052                      |      | 0.78 |     | 0.79 |      |
| Density @ 15.6 C, kg/l, ASTM D4052                    | 0.83 |      |     |      | 0.80 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92         | 120  | 150  | 130 | 170  | 180  |
| Kinematic Viscosity @ 100 C, mm2/s, ASTM D445         |      | 2.0  | 2.5 | 3.0  | 2.5  |
| Kinematic Viscosity @ 40 C, mm2/s, ASTM D445          | 4    | 6    | 7   | 12   | 15   |
| Dielectric Strength, kv                               | 28   |      |     |      |      |

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

09-2021  
Esso Petroleum Company limited  
ExxonMobil House, Ermyn Way, Leatherhead, Surrey KT22 8UX

You can always contact our Technical Help Desk engineers on Mobil lubricants and services related questions: <https://www.mobil.co.uk/en-gb/contact-us-technica>  
44 (0)1372 222000  
<http://www.exxonmobil.com>

Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product perfor are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All pr may not be available locally. For more information, contact your local ExxonMobil contact or visit [www.exxonmobil.com](http://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 inten override or supersede the corporate separateness of local entities. Responsibility for local action and accountability remains with the local ExxonMobil-affiliate entit

ExxonMobil

Exxon

Mobil

Esso

XTO

© Copyright 2003-2024 Exxon Mobil Corporation. All Rights Reserved