



Mobilgrind Series

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 workplace 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 help 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 to 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 may 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	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

Mobilgrind Series has the following builder approvals:

KAPP GMBH

	13	14	24	26	36	37
KAPP GMBH	-	-	-	-	X	-

Typical Properties

Mobilgrind	13	14	24	26	36	37
Density, kg/l	0.83	0.78	0.83	0.79	0.80	0.82
Color, ASTM D1500	1.5	1.0	8	1	2	1
Viscosity, ASTM D445						
cSt at 40°C	4	6	7	12	15	20
cSt at 100°C		2	2.5	3.0	2.5	4.0
Flash Point, ASTM D 92, °C (°F), min	120	150	130	170	180	200
Copper Strip Corrosion, ASTM D 130, 3 hrs. at 100°C, max		1B	1B	1B	1B	1B
Dielectric Strength, kv	28					

Health and 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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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.

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