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LUBRICANTS

MACKEREL MS

Description

MACKEREL MS is a premium quality, general purpose, emulsifiable semi-synthetic fluid especially suitable for cutting and grinding operations where maximum cooling is desired. It forms with water a translucent emulsion due to the emulsifier's combination which leads to the formation of microdroplets of oil in the emulsion. It exhibits high film strength and providing balanced lubricity and machinability

Properties / Advantages

- Versatile in use, can be used in a broad range of applications.
- Excellent stability and resistance to emulsion breakdown.
- Excellent protection against rust and corrosion.
- Excellent resistance to bacterial and fungal attack, providing long lifetime of the charge.
- Maximum cooling capacity.
- Very good affinity to the metal surface for homogenous wetting lubricating film.
- High lubricity to reduce friction and wear.
- Foam-free operation.
- Very good filterability.
- Very low misting to assure visibility and contamination of the surrounding area.

Application Guidelines

- Water quality must be suitable for preparing emulsion. Dirty, fuzzy, fragrant and extremely hard water should not be used for this purpose.
- Clean water should be taken into a bowl or tank. Depending on the application, required amount of Mackerel M-HR should be slowly added into water. While adding oil, emulsion should be mixed well.
- Always add the oil concentrate to the water phase and not vice versa.
- Mixing temperatures are not critical, but for best results the neat oil and water should be at room temperature between 20 and 25 °C.
- Demineralized water is recommended for daily top-up for maximum charge life and excellent surface finish.
- During stoppage times emulsion should be circulated in order to prevent the break up emulsion and to prevent bacterial growth. This could be done circulating emulsion 1-2 hours every day during stoppage.

Recommended Usage: Depending on the applications it can be mixed inwith either soft water or water of normal degree of hardness to oil proportion from 5 to 25% for machining and 1,5 to 3% for grinding.

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Technical Properties

Property	Test Method	Typical Value
Appearance	-	C&B
Odor	-	Typical
Density at 15 °C, gr/cm ³	ASTM D 4052	0.894
Kinematic Viscosity at 40 °C , mm ² /s	ASTM D 445	23
Pour point, °C	ASTM D 97	<-27
Refractive Index	ASTM D 1218	1.490
Emulsion (5% demineralize water)		
Appearance	-	Translucent
pH	-	8.88
Emulsion Stability, 24 hour	-	stable

** The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modification is reserved.*

Health & Safety

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet.

Packaging

180 kg drum, 850 kg IBC.

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