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MACKEREL M-HR

Description

MACKEREL M-HR is an emulsifiable fluid specially suitable for the hot rolling of aluminum as well as for the continuous hot aluminum casting/ rolling/drawing lines(Properzi machines). It forms with water a stable emulsion having high film strength and providing balanced lubricity and machinability.

Application

It is highly recommended for hot rolling aluminum and aluminum alloys involving:

- Breakdown reversible 2-high / 4-high mills, finishing tandem mills and on combination mills
- Tube mills and continuous casting/rolling operations for aluminum wire and strip rolling.
- Emulsion concentrations vary between 3 to 8% by weight depending on production configuration, desired surface finish, rolling speeds, flow rate and reduction severity.

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 Dosage: Depending on the applications tread rate may change 3-12% wt.

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.

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Technical Properties

Property	Test Method	Typical Value
Appearance	-	C&B
Odor	-	Typical
Density @15 °C, gr/cm ³	ASTM D 4052	897
Kinematic Viscosity @ 40 °C , mm ² /s	ASTM D 445	36
Kinematic Viscosity @ 100 °C , mm ² /s	ASTM D 445	5
Refractive Index	ASTM D 1218	1491
Flash Point (COC), °C	ASTM D 92	176
Emulsion (5% demineralize water)		
Appearance	-	Milky White
pH	-	8.2
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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