

MOL Emroll AHR 32 HT

ashless aluminium hot-rolling fluid



MOL Emroll AHR 32 HT is a water-miscible emulsion forming fluid, having high thermal and hydrolytic stability, developed for hot rolling aluminium. It is a highly refined mineral oil containing ash-free emulsifier components, as well as additives that inhibit corrosion, modify friction and inhibit foaming. Demineralized (e.g. reverse osmosis) water is necessary for making new emulsion and maintain operational concentration for the sake of maximum performance and long service life of emulsion. When prepared with 10 - 25 % (V/V) concentration for cast-rolling with Properzi rolling mills, it ensures a consistent rolling performance in addition to providing stain-free excellent surface quality, when high strength metals are rolled with high speeds, and with suitable handling, a long service life and economically efficient usage of lubricant can be achieved. It can be beneficially used at high emulsion temperature (70-75 °C). It is compatible with the plastic and rubber sealing materials of the equipment even at a concentration of 25-30 % (V/V). It does not contain chlorine, nitrite, secondary amines, bactericide, fungicide, heavy metals, or PCB/PCT compounds.

Application



Casting rolling of rough wire on Properzi type roll stand

Rotary-type cast rolling of narrow strips

Neat, low alloyed and high alloyed aluminium

High strength and soft aluminium alloys

For industrial use

Features and benefits

Controlled lubrication-friction relationship	Ensures prevention of both slipping and adhesion
High resistance against temperature and pressure	Long emulsion service life despite exposure to increased stress, resulting in low specific fluid consumption and low rolling fluid cost
Effective washing and rinsing properties	Perfect and clean rolled surface
Good filterability	Liquid and solid contaminants can be efficiently separated using numerous separation techniques, emulsion cleanliness is easy to maintain, contributes to achieving surface quality required
Low foaming tendency	Less downtime, giving reduced maintenance costs and environmental impact

Specifications and approvals

ISO 6743-7: L-MAB

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Properties

Properties	Typical values
Appearance	brown, clear, light opalescence is permissible
Density at 15°C [g/cm ³]	0,880
Emulsion pH value (5% (V/V) / distilled water)	8,5
Emulsion foaming characteristics (5 % (V/V) / distilled water)	
- foam volume promptly (5 % (V/V) / distilled water) [cm ³]	60
- foam vanishing time (5% (V/V) / distilled water) [s]	10
Emulsion stability (5% (V/V) / distilled water)	
- oil separation (5 % (V/V) / distilled water)	free
- cream separation (5 % (V/V) / distilled water)	in traces
Anticorrosion effect (5% (V/V) / distilled water)	
- cast iron (5 % (V/V) / distilled water)	negative
- aluminium (5% (V/V) / distilled water)	negative

The characteristics in table are typical values of the product and do not constitute a specification.

Storage and handling instructions

Store in the original container in dry, properly ventilated area.

Keep away from direct flame and other sources of ignition.

Protect from direct sunlight.

To preserve the original quality keep the suggested storage temperature.

During transport, storage and use of the product follow the work safety instructions and environmental regulations relating to mineral oil products.

In the concentration specified for use and in case of keeping the health safety rules, the emulsions are not harmful to human health and do not cause skin affection.

For further details please read the Material Safety Data Sheet of the product.

In the original container under the recommended storage conditions: 6 months

Recommended storage temperature: +5°C - +40°C

Ordering information

Custom Tariff Number 27101991

SAP code and packaging:

13100641 MOL Emroll AHR 32 HT 180KG

216.5 l steel drum (for order only)

13301186 MOL Emroll AHR 32 HT 860KG R1W

IBC (for order only)

Order booking:

Please contact your local distributor or sales partner for ordering details.