

Emulsifying oil for metalworking

EMULSIN SYNTHETIC EP

EMULSIN SYNTHETIC EP emulsifying oil is fluid formulated upon properly selected synthetic components.

The synthetic treating fluid Emulsin Synthetic EP is designed for making water microemulsions, which are applied as cooling and lubricating liquids for different kinds of working, where EP properties are required.

Emulsin Synthetic EP is particularly recommended for cutting, rolling, machining and grinding as well as for drawing and pressing of steel, aluminum and non-ferrous metals.

The product does not contain chlorides and boron.

Characteristics:

- effective at low concentrations
- good filtering ability
- good protection against corrosion
- slight tendency towards foaming
- excellent biostability.

For making the microemulsion it is recommended to use water of hardness up to 25 °n.

Nº	Requirements	Research methods by	Value
1.	Appearance	Visual	Amber liquid
			2% emulsion
3.	Test of anti-corrosion protection, protection degree	PN-92/M-55789	H0
4.	pH	PN-89/C-04963	9,4
5.	Emulsion stability after 24h/20°C, 10°N water	CBA/LB/9	Remains stable

Specifications/ classifications:

ISO L-MAH

Application Recommendations:

Refractive index – 1,3

Machining Type	Emulsion concentration (%)
Light machining	3-5
Severe machining	6-7

For appropriate application of the cooling and lubricating emulsion formulated upon Emulsin Synthetic EP it is recommended to:

- always add oil to water, and not the reverse, for proper mixing of the oil concentrate and water,
- check the concentrations periodically and verify their value,
- control the quality of water being used for making and diluting the emulsion,
- clean the system periodically at the emulsion change.

The above given data are the typical values for a production batch, they are not included in technical specification, and they are subject to change due to continual product research and development.

Packaging:

26 kg, 180kg, 1ton

Storage:

The products should be stored under a roof. If they are stored in the open air where they can be exposed to atmospheric conditions – rains, they should be placed in a horizontal position in order to avoid inrush of water to a container and to prevent label damaging; they should be covered with tarpaulin.

The products should not be stored at the temperature above 60°C and in the places where solar radiation is very strong or – temperatures very low, below 0°C. The expiry date is not less than 1 year if the storage conditions are satisfied.

Health, Industrial Safety and the Environment :

Information concerning safety is included in the product Safety Sheet. It contains detailed information on possible threats, warnings, first aid as well as the impact on the environment and ways of utilization of the used products. LOTOS Oil SA and the cooperating companies do not take responsibility for misuse of the product or – the use with the violation of the precautions given. Before using the product for other than recommended purposes, seek advice in the local LOTOS Oil SA office.

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