

EMULSTAR LXH 36

BORON-, SECONDARY AMINE- AND FORMALDEHYDE-FREE EMULSION



APPLICATIONS

EMULSTAR LXH 36 is ideal on aluminium and its alloys for difficult machining such as boring and tapping. Inhibited against staining, it allows the machining of aluminium automotive parts.

EMULSTAR LXH 36 is recommended for critical alloy steel machining operations.

EMULSTAR LXH 36 is compatible with yellow metals (*only products delivered since June 2020*).

After dilution, **EMULSTAR LXH 36** forms a milky emulsion which has exceptional antifoam and corrosion protection performance.

EMULSTAR LXH 36 is self-protected against bacterial growth, which allows a long service life even under difficult conditions on individual machines.

EMULSTAR LXH 36 is specifically formulated for use on new CNC machines with high flow rates and high pressures.

EMULSTAR LXH 36 is compatible with hard water.

BENEFITS

- **Extended tool life:** thanks to an exceptionally efficient lubrication/wettability mix
- **Improved lifespan:** special technology increases the life of the baths, fewer additive treatments and lower user costs
- **Excellent detergent power:** greater cleanliness of parts, machine tools and the working environment
- **Cost reduction:** low consumption by additions. Ideal for machining centres
- **Resists foaming:** use for modern high-pressure machines.

- Meets the **PMUC** criteria within the concentration limit < 12%
- **Boron-free:** not classified as SVHC under REACH regulations
- **Very good HSE profile:** free from boron, formaldehyde liberator and phenol. Contains only TRGS611 approved amines

USE

The percentage of use should be taken into account according to the materials to be machined, the hardness of the water and the protection of the machined metals required.

- Grinding: 3 to 5%
- Normal machining: 5 to 7%
- Difficult machining: 7 to 10%

Preparation of the emulsion is done by pouring the oil into the water or using a mixer/doser. The concentration and pH of the product in service should be checked regularly.



CHARACTERISTICS

CHARACTERISTICS	UNITS	METHODS	TYPICAL DATA
Appearance of the concentrate			Amber fluid
Density at 20°C	kg/m ³	ASTM D 4052	950
Appearance of the emulsion	-	Visual	Milky
pH of the concentrate	-	-	10
Refractometric coefficient	-	-	1.4

The typical data provided are only approximate values

HEALTH, SAFETY AND ENVIRONMENT

The selection performed on raw materials and health tests carried out on **EMULSTAR LXH 36** ensure that this product, when used properly according to the recommendations, is perfectly harmless to users. It is worth noting that a coolant operates in a sump for a relatively long period of time, during which it is subjected to various types of pollution that can be of a chemical nature (hydraulic oils, fats, metallic solutions, varnishes, passivators, etc.) or bacteriological (users' hands, parts to be machined, industrial waste water, fire clay, miscellaneous waste, etc.). Good hygiene in the workplace can extend the duration of the bath and optimise the chemical characteristics of the product.

Disposal must comply with applicable regulations pertaining to the disposal of used oils.

The product must be stored in a covered area that is clean and dry, and not exposed to cold temperatures. The recommended storage temperature ranges from 5°C to 40°C unless indicated otherwise. Ensure that there is a good stock turnover rate.

Use-by date: manufacturing date + 12 months

Our technical department is available to provide any advice you may need.