

LUBRAL LS 2000 M HD

SOLUBLE METALWORKING FLUID

DESCRIPTION

Mineral soluble oil formulated with highly refined oils and surfactants that allow forming stable emulsions in hard and soft water, providing the fluid with wetting, lubricating and cooling properties. It contains high-tech additives in extreme pressure, anti-friction, anti-corrosion and bactericidal chemistry. When mixed with water the fluid takes a milky and clean appearance, ideal for moderate and high load operations in ferrous materials.

BENEFITS

- Extended tool life.
- Excellent corrosion protection.
- Cleanliness and detergency in machining.
- Light odor.
- High lubricity performance.
- Non-staining.
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RECOMMENDED DOSAGE

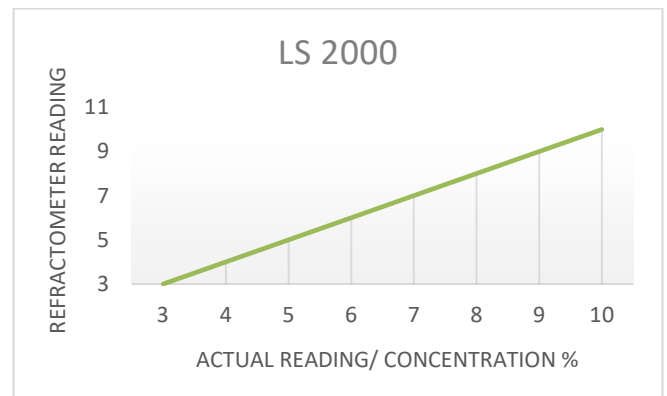
WORK MODEL	CONCENTRATION
Light machining and polishing	5%
Moderate machining	5%
Drilling and tapping	5% - 7%
Turning and milling	5% - 10%

APPLICATIONS

Recommended for machining tough ferrous alloys, as well as mild steel and cast iron in operations such as: milling, drilling, turning, broaching, milling, tapping, threading and forming.

MIXING RECOMMENDATIONS

- The use of deionized or demineralized water improves the lifetime of the soluble reservoir and extends the adjustment periods with concentrated fluid.
- Add the concentrate to the water (according to the recommended percentage).



$$\text{Actual Reading/Concentration} = \text{Refractometer reading} \times \text{Refractive factor}$$

$$\text{Refractive factor} = 1.0$$

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CHARACTERISTICS

TESTS	TEST METHOD	TYPICAL VALUE
Appearance (concentrate)	Visual	Bright
Appearance (mixed with water)	Visual	Milky
Density @20°C, g/cm ³	ASTM D4052	0.95
°Brix @5%	Refractometer	5.5
pH @5%		9.4
Foaming @5		Pass
Emulsión stability @5%		Pass
Wear, 4 balls, mm @5%	ASTM D4172	0.72
Herbert Oxidation @5%	ASTM D4627	Negative
Factor (refractometer)		1.0

Typical Properties are those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are expected during normal manufacturing and at different mixing locations.

The information in this document is subject to change without notice. Product availability may vary depending on the location. For more information, you can contact us at venta@lubral.com