

## LUBRAL LS 5000 SYN

### METALWORKING SYNTHETIC SOLUBLE

#### DESCRIPTION

Synthetic soluble oil carefully balanced with chlorine-free extreme pressure components, thus reducing the impact on the environment when available. When mixed with water, it forms a fluid with an extended life due to its high resistance to bacteria. The low tendency to foam formation (inherent in the fluid's own chemistry) reduces material losses from the tanks and allows a cleaner operation. Offers excellent lubricity and cooling in the machining process.

#### BENEFITS

- Extended tool life.
- Chlorine free, friendly to the environment.
- Clean operation.
- Better finish.
- Anti-fog.
- Slight odor.
- Minimizes COD and BOD problems.
- Not stain.

#### RECOMMENDED DOSAGE

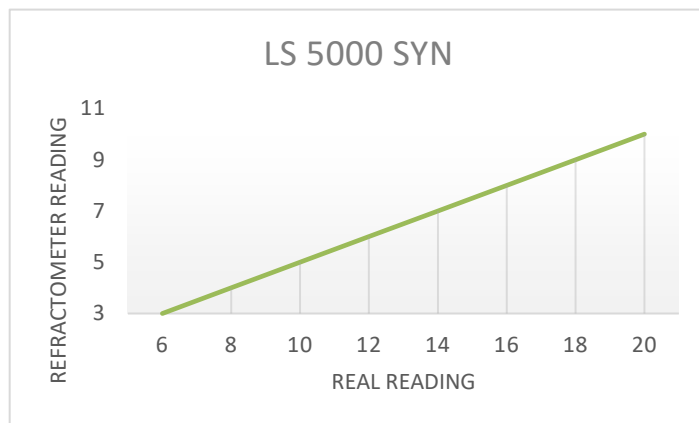
WORK MODEL	CONCENTRATION
Light machined and polished	5%
Moderate machined	7%
Drilling and tapping	7%
Turning and milling	7% - 10%

#### APPLICATIONS

Recommended in applications such as surface polishing, drilling, threading, turning and milling on ferrous and non-ferrous materials, including stainless nickel, but excluding magnesium and copper. Effective in high pressure operations due to the low tendency to foaming.

#### MIXING RECOMMENADATIONS

- The use of deionized or demineralized water improves the useful life of the soluble tank, in addition to extending the adjustment periods with concentrated fluid.
- Add the concentrate to the water (according to the recommended percentage).



Real Reading / % concentration = Refractometer reading x refractive factor.

Refractive factor = 2.0

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### CHARACTERISTICS

TESTS	TEST METHOD	TYPICAL VALUE
Appearance (concentrated)	Visual	Colorless
Appearance (mixed with water)	Visual	Colorless
Density @20°C, g/ml	ASTM D-1298	1.05
°Brix @5%	Refractometer	2.2
pH @5%		9.2
Foaming @5%		Pass
Emulsion stability @5%		Pass
4 balls wear, mm @5%	ASTM D-4172	1.0
Herbert Oxidation @5%	ASTM D-4627	Negative
Factor (refractometer)		2.0

Typical Characteristics are those obtained with normal tolerance of production and no constitute a specification. Variations that do not affect the yield product during the normal manufacturing and on different mixing locations are expected.

Information contained in this document is held to changes without previous advisement. The availability of the products could vary depending on the location. For further information, contact [venta@lubral.com](mailto:venta@lubral.com)