

LUBRAL LS 3000 SEM

METALWORKING SEMISYNTHETIC SOLUBLE

DESCRIPTION

Soluble semisynthetic oil that combines the physical lubricity provided by a soluble mineral oil with the chemical lubricity, cooling, and cleanliness of synthetic fluids. When mixed with water, the fluid takes on a slightly cloudy appearance (due to its semi-synthetic nature) allowing good visibility and cleaning of the process. Due to its chemical composition, it is ideal for light machining of ferrous and non-ferrous metals. Excellent protection against corrosion and low tendency to foaming. Offers excellent lubricity and cooling in the machining process. LS3000 SEM is an effective choice in light milling, drilling and turning machining.

BENEFITS

- Extended tool life.
- Excellent protection against corrosion.
- Cleaning and detergency in machining.
- Slight odor.
- High performance in lubricity.
- Not stain.

RECOMMENDED DOSAGE

| WORK MODEL | CONCENTRATION |
|-----------------------------|---------------|
| Light machined and polished | 5% |
| Moderate machined | 5% |

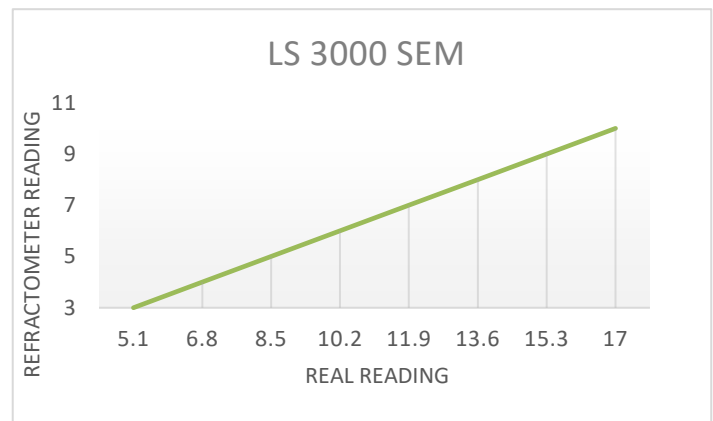
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|----------------------|----------|
| Drilling and tapping | 5% - 7% |
| Turning and milling | 5% - 10% |

APPLICATIONS

Recommended in light milling, turning and drilling applications. Fluid compatible with steel alloys, cast iron, aluminum and copper alloys, as well as plastics and other compounds. By having less drag, semi synthetics use less material, which translates to reduced costs in the operation.

MIXING RECOMENDATIONS

- 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 = 1.7

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CHARACTERISTICS

| TESTS | TEST METHOD | TYPICAL VALUE |
|-------------------------------|---------------|---------------|
| Appearance (concentrated) | Visual | Bright |
| Appearance (mixed with water) | Visual | Cloudy |
| Density @20°C | ASTM D-1298 | 1.02 |
| °Brix @5% | Refractometer | 2.6 |
| pH @5% | | 9.7 |
| Foaming @5% | | Pass |
| Emulsion stability @5% | | Pass |
| 4 balls wear, mm @5% | ASTM D-4172 | 0.72 |
| Herbert oxidation @5% | ASTM D-4627 | Negative |
| Factor (refractometer) | | 1.7 |

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