

PRODUCT INFORMATION

## ECOSE® SOLUBLE SS-MG

### *High performance semi-synthetic metalworking coolant*

ECOSE® Soluble SS-MG is an advanced, high-performance semi-synthetic coolant formulated with the right balance between lubricity and cooling. ECOSE® Soluble SS-MG is designed for most machining and grinding operations on both ferrous and non-ferrous metals. It contains synthetic lubricity and anti-weld additives that helps to reduce the friction between the cutting tool and the work-piece interface.

**RECOMMENDED USES:**

ECOSE® Soluble SS-MG has been developed as a versatile “*all purpose*” coolant that can work in a broad range of applications and metal alloys. It is the perfect coolant to consider for plants wanting to find one product to meet the challenges of the entire facility.

**FEATURES AND BENEFITS:**

- Low foam
- Multi-metal compatibility
- Excellent tramp oil rejection
- Contains no chlorine or sulfur
- Excellent sump life
- Clean running on cast iron
- Superior corrosion protection
- Bio-Stable to ensure longevity of use

**TYPICAL PROPERTIES – ECOSE® Soluble SS-MG**

- **Product Code** **535198**
- Appearance, Concentrate Amber Fluid
- Dilution (5% in DI water) Semi-Translucent
- Density: 8.16 Lbs/Gal
- Viscosity cSt @ 40°C: 115.0
- pH @ 10% concentration 9.5 ± 0.2
- Specific Gravity: 0.98
- Cast Iron Chip Test 20:1 dilution Pass – No Rust
- Cast Iron Chip Test 50:1 dilution Pass – No Rust

\* The above typical properties are subject to manufacturing tolerances.

**ECOSE® Soluble SS-MG: Recommended Starting Concentrations<sup>1</sup>:**

Machining Operation	Aluminum Alloys <sup>2</sup> , Non-Ferrous, Soft Metals	Carbon Steel, Cast Irons and Nickel Alloys	Tool Steels, “Monel” Metals	Titanium Alloys, High Alloys, Stainless Steels
Grinding	3% - 6%	5% - 8%	5% - 6%	5% - 6%
CNC Machining	5% - 8%	5% - 8%	5% - 8%	5% - 8%
Turning, Milling, Forming, Drilling, Sawing	5% - 8%	5% - 8%	5% - 10%	8% - 10%
Tapping, Reaming, Boring, Broaching, Form Milling	6% - 10%	6% - 10%	8% - 12%	8% - 12%

Notes: (1) recommended starting dilutions are provided. These are approximate and may require higher or lower water concentrations depending on severity of the operation, type of metal being machined, water hardness and machine speed.  
 (2) ECOSE® Soluble SS-MG might stain some sensitive aluminum alloys.

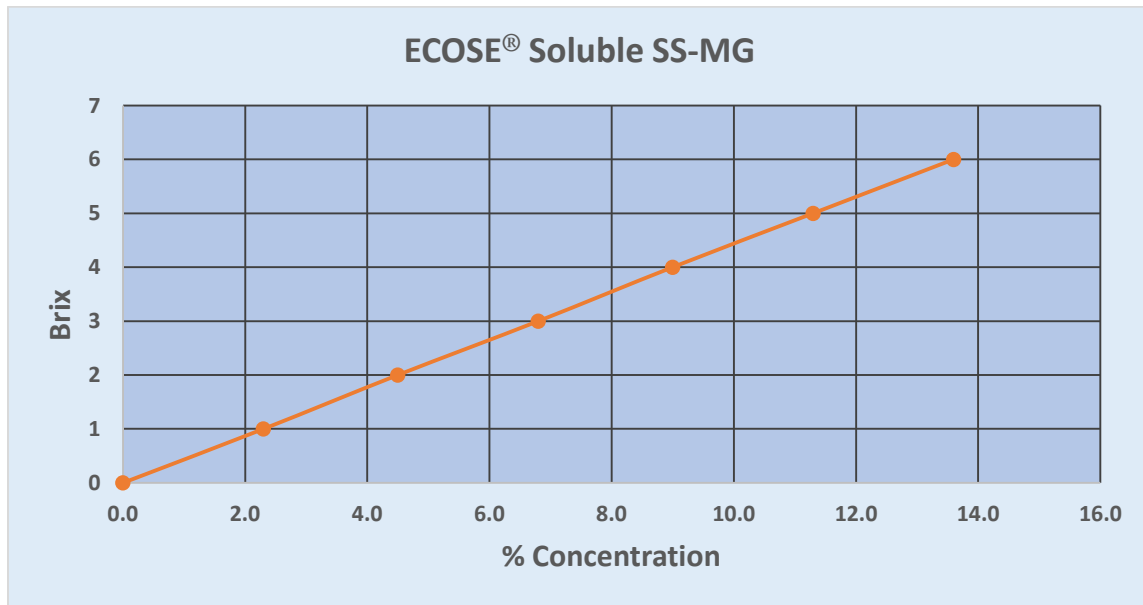
**Monitor concentration by using a refractometer.**

Refractometer Reading	% Concentration
1.0	2.3
2.0	4.5
3.0	6.8
4.0	9.0
5.0	11.3

Refractometer Factor = 2.25

**Suggested Operating Dilutions:**

Type of Use	% Concentration
Light Duty	3-5
Moderate Duty	5-9
Heavy Duty	7-10
Very Heavy Duty	9-12



**Concentration (%) = Refractive index reading (brix reading) X 2.25**

**PRODUCT MAINTENANCE:**

When mixing, always premix coolant before adding to the machine sump • **Never** add straight water or straight concentrate directly to the machine’s sump.

**STORAGE AND HANDLING:**

Containers of **ECOSE® Soluble SS-MG** should be stored indoors. Never store fluid at temperatures below 40°F (4°C) or above 125° (52°C). If frozen, product may separate. Thaw and stir thoroughly until fluid reaches room temperature.

**AVAILABILITY:**

**ECOSE® Soluble SS-MG** is available throughout Nu-Tier Brands’ marketing area. Your Nu-Tier representative can provide specific information. Need additional information? Call Nu-Tier Brands @ 1-877-771-LUBE (5823) or visit Nu-tierbrands.com.