



## HYDROSOL 5035

### Semi-Synthetic Water Miscible Cutting Fluid

#### Description:

**HYDROSOL 5035** is high quality, bactericide-free semi-synthetic micro emulsion metalworking coolant specifically designed for machining of all types of cast irons, steels and aluminum.

**HYDROSOL 5035** is based on new technology resulting in biostability without biocide, low foaming, and low to no odour, highly enhanced lubricity, emulsion stability, as well as cleanability and tramp oil rejection. This product uses a balanced combination of natural and synthetic esters and extreme pressure additives for enhanced lubricity, especially on alloy steels.

#### Performance benefits:

- **EXCELLENT RESISTANCE TO BACTERIA** – High Biostability – Long sump life. Much lower disposal costs.
- **EXTENDED TOOL LIFE** – Designed for medium to heavier duty applications and contains a superior lubricity package that allows tools to perform at their maximum capacity.
- **SUPERIOR FOAM CONTROL** – low foaming even at high pressures.
- **EXCELLENT CLEANLINESS** - Designed to reject tramp oils, provides clean parts and keeps machine clean.
- **EXCELLENT CORROSION PROTECTION** – Designed to protect non-ferrous metals from staining and prevent bi-metallic corrosion. Compatible with most metals.
- **EXCELLENT COOLING** – Through better wetting resulting in dimensional accuracy and surface quality.
- **HEALTH & SAFETY** – Low odour, Low misting, Mild to skin, parts or machinery. This product has been designed with the operator in mind.
- **ECOSYSTEM** – Recyclable. No carcinogens, no formaldehyde releasers, no Triazine, no nitrites.

#### Applications:

	Cast Iron	Alloy Steels	High Alloy and Stainless Steels	Aluminum Alloys	Yellow Metals
Milling	✓	✓	✓	✓	
Drilling	✓	✓	✓	✓	
Turning	✓	✓	✓	✓	
Reaming	✓	✓	✓	✓	
Tapping	✓	✓	✓	✓	
Broaching	✓	✓		✓	
Grinding	✓	✓	✓		

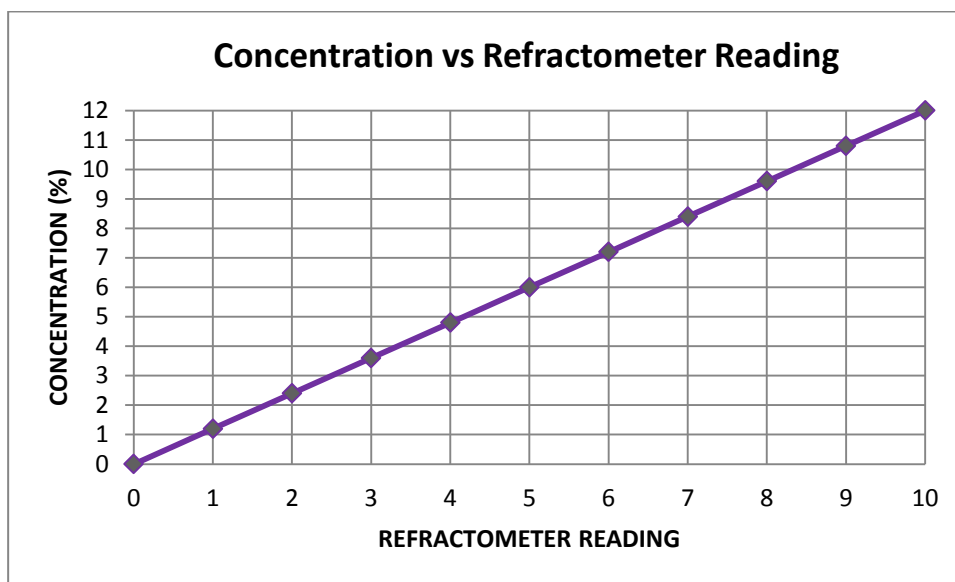


**Characteristics:**

Appearance of Concentrate  
Appearance of Dilution  
pH of Dilution  
Specific Gravity  
Density  
Chlorine  
Nitrites,  
Phenols

Typical Value
Amber liquid
Translucent to opaque
Operating 9.2 for 5% sol.
0.97
8.15 lbs/gal
Yes
No
No

**Fluid Maintenance:**



Typical starting dilution for **HYDROSOL 5035** is 5% for most applications and the range is between 5% and 12% depending upon metal being machined and type of machining operation. For concentration control use refractometer; calibrate refractometer with water often, must read 0.0. Always add coolant to water. Typical use concentrations:

**Grinding** ----- 4 to 6%

**Machining** --- 5 to 10%

**Tapping and broaching** --- up to 15%

*The information contained in this bulletin is to our best knowledge, true and accurate, but all recommendations or suggestions are made without guarantee, since the conditions of use are beyond our control. Lubricor Inc. disclaims any liability incurred in connection with the use of these data, suggestions and product.*

9435 Waterstone Blvd., Suite 140  
Cincinnati, OH 45249-8226  
Tel: (886) 802-8092  
Fax: (513) 444-2099

605 Colby Drive, Waterloo,  
Ontario N2V 1A1  
Tel: (519) 884-8455  
Fax: (519) 884-4477