



AQUAGLIDE™ 321

Economy Synthetic Water-Dilutable Metal Working Fluid

Description

Aquaglide™ 321 is a 100% synthetic, water based metal working fluid that delivers exceptional machining performance at a more economical price point than most other synthetics.

Aquaglide™ 321 is highly effective on aluminum as well as in grinding applications involving cast and nodular iron parts. Its unique formulation and specialty lubricity additives provide excellent tool life, extended sump life and good hard water stability. The oil rejecting blend of boundary lubricants, corrosion inhibitors and biocides helps keep machines running cleaner than with semi-synthetic and soluble oils.

Refractive Index

Concentration Percent	Dilution Ratio	Refractometer Reading
3%	33:1	1.2
4%	25:1	1.6
5%	20:1	2
6%	16:1	2.5
7%	14:1	3
8%	12:1	3.3
9%	11:1	3.7
10%	10:1	4

Application Information

Application Type	Concentration
General Machining	5 - 7%
Grinding	4 - 6%
<i>Consult with your U.S. Lubricants Specialist for application specific recommendations</i>	

Features/Benefits

- ✓ **Versatile**
Suitable for use on ferrous and non-ferrous (yellow) metals. Especially effective on aluminum and for grinding cast and nodular iron parts
- ✓ **Excellent Tool Life**
Special lubricity additives protect tooling from excessive wear
- ✓ **Long Sump Life**
Reduces coolant use and costs, increases productivity
- ✓ **Oil Rejecting**
Simplifies tramp oil removal
- ✓ **Excellent Biological Properties**
Resists bacterial growth, greatly reducing the need for biocide additions
- ✓ **Clean Running Fluid**
Synthetic components eliminate oily residue and prevent build up
- ✓ **Hard Water Stable**
Does not require the use of processed water

Typical Properties

Property	Results
Appearance	Blue Liquid
Solubility in Water	Complete
pH	8.9 - 9.3
Freeze Point, °F	32°F