



GEORGIA WAREHOUSE
3939 Royal Drive, Suite 139,
Kennesaw, GA, 30144

MICHIGAN WAREHOUSE
25991 Northline Commerce Dr.
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UTAH WAREHOUSE
647 West Billinis Road, Unit 1
Salt Lake City, Utah 84119

ChemWorld Synthetic ALL

Fully-Synthetic Machining and Grinding Fluid for Aluminum and Ferrous Metals

- High-Lubricant Polymer Content -

DESCRIPTION

ChemWorld Synthetic ALL is a high performance fully-synthetic high-lube machining fluid developed to provide superior performance for critical machining, grinding, and roll forming applications of aluminum and ferrous metals. This unique blend provides outstanding lubrication and cooling for excellent surface finish, superior cutting, wheel life and outstanding corrosion protection. The bio-stability of this product resists depletion due to microbial action. ChemWorld Synthetic ALL provides superior chip settling properties and controlled detergency to reduce tacky, gritty residues from forming during grinding, machining, and roll-forming operations. ChemWorld Synthetic ALL is highly waste treatable do to its chelant free formulation. ChemWorld Synthetic ALL resists emulsification of tramp oils. ChemWorld Synthetic ALL works extremely well on honing and reaming operations.

PROPERTIES

Concentrate Appearance	Blue
Dilution Appearance	Clear
Odor	Light lemon scent
EDTA Content	None
Residual Film	Fluid
pH @ 10%	9.3 to 9.9
Specific Gravity @ 60°F (H ₂ O=1)	1.055
Total Sulfur	None
Total Chlorine	None
Mineral Oil/Petroleum Oil Content	None
Foaming	Very Low (400mls / 5-seconds)
Metal Compatibility	Safe on aluminum and ferrous metals

APPLICATIONS

	<u>Ratio</u>	<u>Cast Iron</u>	<u>Steel and Aluminum</u>
Tapping, Reaming, Sawing	10:1/20:1	7%	10%
Milling, Turning	20:1/30:1	5%	6%
Grinding, Centerless, I.D and O.D.	20:1/40:1	3%	5%



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REFRACTOMETER READING

3%	1.8
4%	2.4
5%	3.0
6%	3.6
8%	4.8
10%	6.0

EXPOSURE CONTROLS / PERSONAL PROTECTION (CONCENTRATE)

Respiratory Protection:	None required.
Ventilation / Local Exhaust :	General room ventilation.
Ventilation / Mechanical Recommendations:	None required.
Skin Protection - Concentrate:	Vinyl or rubber protective gloves.
Eye Protection - Concentrate:	Goggles
Other Protective Equipment:	Vinyl apron (optional).

HIMS RATING / NFPA RATING

1,0,0

For Industrial and commercial use only