AHB TOOLING & MACHINERY

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(800) 991-4225
www.ahbinc.com
ISO Certified
customerservice@ahbinc.com

MICROCHIP

Pure Synthetic Flood Lubricant

Product description

Microchip is a pure synthetic flood lubricant, that can handle your tough metal working applications. It is designed to provide excellent lubrication characteristics for machining of all metals. It is not compatible for use on magnesium. Microchip's chemistry is based on a unique blend of high-quality additives that enable this fluid to provide excellent machining performance. Microchip was designed to be extremely low foaming and provide superior rust protection at ratios between 5-1 and 30-1. Microchip runs clean, lasts long, and will not create an abundance of buildup requiring excessive maintenance.

Product Application

This product is designed for flood operations on machine centers, but can be used for other applications as well.

Features, and benefits

Use on all metals.

Non-toxic; non-flammable liquid.

Very low foaming.

Does not contain nitrites, chromates, phosphates. Oil-rejecting.

Durable, long lasting fluid reduces waste disposal, and changeover costs.

Excellent corrosion protection.

Hard water stable.

Physical and chemical properties

Appearance: Clear violet-blue

pH: 8 – 8.6

Specific gravity: 1.0 kg/l

Recommended Concentration

Coolant percentage	Refractive index	Dilution Ratio
20 %	10.0	5-1
10%	4.9	10-1
7 ½ %	3.4	15-1
2 ½%	1.7	30-1

Use directions

- It is always important that when working with a water-based coolant, to realize that the water evaporates rapidly. When this happens, you will need to replace the evaporated water /coolant mix. By increasing the water amount, you will be able to keep a consistent mix ratio. For instance, if you are using the coolant at a 10:1 ratio, your makeup ratio should be 15:1 to replace the water lost from evaporation. This is a general rule of thumb on this. It is recommended you use a refractometer to better keep control of your metalworking fluids.
- **Always pre-mix coolant** before adding it to the machine
- If mixing by hand, always **add the coolant concentrate to water**, then agitate.
- Use of some type of proportioner is recommended

Safety and handling

Refer to Safety Data Sheet for additional information on this product.