

Everyone's talking about Liquid-Ice.<sup>®</sup>



It's the talk of the metal cutting industry, because it's the cool alternative to oil and solvent based soluble oils, semi-synthetic and full synthetic coolants.

Liquid-Ice<sup>®</sup> coolant is a fully water soluble coolant that helps prevent tarnish and corrosion on all ferrous and non-ferrous metals.

Liquid-Ice<sup>®</sup> coolant has superb cooling properties and a high grade of lubricity. So it flows clear and stays that way, for clean chip flow with no stickiness on the machines. And no mists, vapors or odors to surround them.

Your cutting tools and machine remain cool – even to the touch of your hand – no matter how hot the cutting temperatures get. Cooler tools mean longer tool life.

What's more, Liquid-Ice<sup>®</sup> coolant is biodegradable, and is non hazardous.

To order Liquid-Ice<sup>®</sup> coolant for your metal cutting machine tools, call us for the name of the dealer nearest you. Or visit us online at [www.liquidicecoolant.com](http://www.liquidicecoolant.com).

You'll be talking up Liquid-Ice<sup>®</sup> coolant, too. Now that you know the cold, hard facts.



The clear choice in metal-cutting fluids.

1-800-472-5568



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## LIQUID-ICE® HPX MACHINING COOLANT AND LUBRICANT

**LIQUID-ICE® HPX is an alternative to oil-based or semi-synthetic coolants. This Premium, fully water-soluble coolant has superb cooling properties and an extremely high grade of lubricity. LIQUID-ICE® HPX has been engineered to be environmentally responsible and safe to operators. It does not create mists, vapors or odors.**

- Excellent Anti-Foaming Characteristics, even under 1000 PSI high pressure applications.
- Increased Cooling Capability resulting in excellent Tool Life.
- HPX is Clean and non-sticky eliminating the need of washing machined parts before painting, welding or heat treating.
- HPX contains added lubricity, which prevents build up on tools in soft metals such as 6000 series aluminum, or Die Cast Aluminum.
- Easy to keep clean and free from tramp oil resulting in longer sump life.
- Excellent Corrosion Protection without the need of expensive tank side additives.
- Environmentally friendly, does not create mists in the air.
- Extremely Safe for Operators and Machinery, no solvents or dyes.
- Clear in appearance allowing full visibility of the machining process

**Applications:** All machining applications involving ferrous and non-ferrous metals.

**Application Data:** LIQUID-ICE® HPX should be flooding the surface of the cutting tool and material to be machined at all times.

**Recommended Dilution Rates:** Concentrations for Ferrous or Non Ferrous metals (aluminum, brass, steel or stainless) ranging from 5% - 12% (19:1 – 7:1) each situation will vary depending upon the specific water-hardness, type of machining and specific application.

Percentage	Dilution Ratio	Refractometer
5%	19:1	1.7
6%	14:1	2.0
8%	11:1	2.7
10%	9:1	3.4
12%	7:1	4.0

It is recommended to initially charge the system at 10%, to establish a baseline performance.



**Environmental Data:** LIQUID-ICE® HPX's ingredients are highly biodegradable according to EPA, DIN, ASTM, or standard methods, are harmless to the environment, and contain no hazardous or toxic materials.