



Chem-CNO ON HIGH PROFITABILITY REDUCES MACHINING COSTS

Multi-Purpose Water Soluble Fluid for CNC

Metal Working Fluid

Product Description

Product Highlights:

- Rapid mixing with water and producing stable emulsions
- Preventing rust and corrosion of parts and equipment
- Long lifetime due to the presence of a specific biocide
- Excellent lubrication properties because of containing EP materials
- High cooling and washing properties

CNO is the trademark for AMEs Industrial lubricants line of high performance water miscible metal removal fluids. Formulated with leading edge base oils, additives, and emulsifiers, with non-chlorinated products provides dependable performance in a wide array of metal removal processes. The product is designed to work in a variety of hard and soft water qualities and offer low foam potential and long-term corrosion protection for machine and components. Low maintenance and inherently stable, CNO is designed for the modern machine shop where long service life, excellent machining performance and health and environmental concerns are important factors for increased productivity.

Lubrication

Besides cooling, cutting fluids also aid the cutting process by lubricating the interface between the tool's cutting edge and the chip. By preventing friction at this interface, some of the heat generation is prevented. This lubrication also helps prevent the chips from being welded onto the tool, which would interfere with subsequent cutting.

Extreme pressure additives are often added to cutting fluids to further reduce tool wear.

Delivery methods

Every conceivable method of applying cutting fluid (e.g., flooding, spraying, dripping, misting, brushing) can be used, with the best choice depending on the application and the equipment available. For many metal cutting applications the ideal has long been high-pressure, high-volume pumping to force a stream of liquid (usually an oil-water emulsion) directly into the tool-chip interface, with walls around the machine to contain the splatter and a sump to catch, filter, and recirculate the fluid. This type of system is commonly employed, especially in manufacturing. It is often not a practical option for MRO or hobbyist metalcutting, where smaller, simpler machine tools are used. Fortunately it is also not necessary in those applications, where heavy cuts, aggressive speeds and feeds, and constant, all-day cutting are not vital.

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