

NuSOL® ALUMAX

METAL WORKING FLUID



CUSTOMER: U.S. LUBRICANT DISTRIBUTOR

PRODUCT

NuSol® Alumax is a non-chlorinated technology for the machining of non-ferrous metals and exotic alloys. NuSol® Alumax is formulated for all machining operations on all metals but is specifically designed to machine today's tougher non-ferrous and aluminum alloys. NuSol® Alumax is manufactured using a proprietary blending process that incorporates many unique characteristics into the product that will promote high productivity rates and minimal downtime for the end user.

NuSol® Alumax is formulated using a blend of unique preformed emulsions that possess a very small particle size and which demonstrate outstanding boundary lubrication. This small particle size provides a very durable and uniform lubricant film, enhanced wetting and coverage, a very clean running fluid, and exceptional hard water stability for enhanced machining performance on non-ferrous and aluminum alloys. NuSol® Alumax preformed emulsions are further complemented with the presence of a surfactant package, offering enhanced boundary lubrication and fluid detergency and cleanliness.

PROCESS AND EQUIPMENT

Industry/Market	Industrial
Product Type	Metal Working Fluid
Product Number	27023F0000
Machinery Involved	CNC Machines
Description of Environment	Machining
Volume Used	2,200 gallons
Date of Use	May 2016
Documented Cost Savings	Expected usage to decrease by 25%

▷ DESCRIPTION OF PROBLEM

The competitor's metal working fluid needed to be dumped and re-charged often due to biostability issues, creating unpleasant odor.

▷ SOLUTION

Following a thorough clean out, NuSol® Alumax was charged up and ran upwards of 50% longer in some machines (~25% average over the test machines). NuSol® Alumax produced no foul odors.

