NuGenTec® High Performance Materials

NuKut MD 1
Technical Data Sheet

100329

NuKut MD 1- Metalworking Fluids - SYNTHETICS

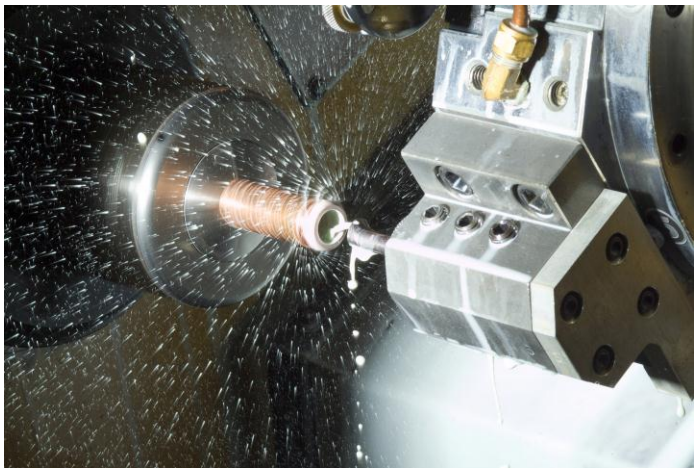
Heavy Duty, Non-Chlorinated Synthetic coolant with excellent rust protection

Applications: NuGeneration Technologies' **NuKut** lines of synthetic metalworking fluids are liquid *OIL-FREE* products designed to assist in many metal cutting and machining operations on ferrous, non-ferrous, and specialty alloys including aluminum. 100% non-hazardous, non-chlorine, non-sulfur and non-phenol based fluids with propriety extreme pressure lubricants are easily disposed of.

NuKut MD 1 is specifically designed for use CNC machining and turning centers. **NuKut MD 1** increases tool life, sump life, improves cutting speeds and prevents corrosion. With its exceptional ability to prevent rust on in process parts and machines **NuKut MD 1** rivals soluble oils in rust protection. Replace soluble oils in your shop with **NuKut MD 1**. Eliminate the hazardous associated with oils; like disposal, fire, dermatitis & skin sensitization. **NuKut MD 1** provides a non-hazardous easily removed corrosion resistant coating on all metals including: Aluminum, brass, bronze, copper, iron, nickel, steel and stainless steel.

Benefits:

- **Low foaming**
- **High lubricity**
- **Excellent surface finishes**
- **Hard water stable**
- **Improved sump life**
- **Improved tool life**
- **Excellent corrosion protection**
- **Easily disposed of**
- **Operator friendly**
- **Mild odor**
- **Prevent carbide leaching**
- **Easy to clean off**



Typical Usage Parameters:

	NuKut MD 1
Description	**CNC Machining**
Grinding	3 – 5%
Cutoff and Sawing	8 – 15%
Milling, Drilling, Turning	5 – 10%

Physical Properties:

	NuKut MD 1
pH, concentrate & pH 5%	10 / 9.8
Bulk Density, #/gal	8.7
Flash point	None
Solubility in water	Complete
Biodegradable	YES
Nitrites/nitrates	NO
Amines	YES
Oil containing fluid	Oil Free
Cast Iron Chip Test pass	2%

Concentration by Refractometer: 5%=2; 7.5%=3 and 10% = 4.
The Factor is: Divided by 0.4 or Multiply by 2.5.
% Concentration NuKut MD1 = Refractometer Reading * 2.5

1155 Park Avenue, Emeryville, CA 94608 • (888) 99-NuGen • (707) 820-4080 • Fax (707) 820-4079
www.nugentec.com • info@nugentec.com