

MAXUS M2 PREMIUM METALWORKING FLUID

MAXUS M2 is a new water extendable, oil rejecting, polyalkylene glycol based cutting and grinding fluid and is part of our new MAXUS group of metalworking lubricants.

MAXUS M2, when diluted with water, exhibits excellent cooling properties for superior finishes and increased tool life. MAXUS M2 provides exceptional E.P. performance characteristics in a variety of machine operations on ferrous materials. While formulated free of chlorine, boron, DEA and DCHA, Maxus M2 runs cleaner in machine tools and has earned very high marks in operator acceptance.

MAXUS M2 remains highly transparent to afford the machine operator full view of the work. Unlike many metalworking fluids, the M2 remains fluid in and on the surfaces of the machining center allowing slideways, chucks, and tooling to work freely without a hard-to-clean, dry residue. The translucent dilute is non-foaming, and retains its oil rejecting characteristics in both soft and hard water. These and related traits compel the M2 to be an excellent choice in central coolant recovery systems where undiminishing filterability and rapid tramp oil separation is a contingency for favorable fluid recovery.

The effective biostatic system formulated into the M2 yields a higher resistance to microbial degradation and rancidity than conventional fluids; this allows for longer coolant life in machine sumps and central coolant systems without special maintenance procedures. The M2 is formulated without the use of Phenol, formaldehyde, or formaldehyde releasing biocides.

MAXUS M2 incorporates a three part corrosion inhibitor package that provides complete protection for machine surfaces and parts in process. M2 also contains an inhibitor to prevent galvanic corrosion between stacked parts. This feature makes M2 well suited for the machining of cast iron.

Recommended Starting Dilutions

Machining - drilling, turning, milling, tapping, boring, and reaming
1 : 25 (4%) to 1 :10 (10%)

Grinding/Sawing - centerless, surface, cylindrical, internal, band
1 : 33 (3%) to 1 : 20 (5%)

Concentration Check

Concentration	1:33 (3%)	1:25 (4%)	1:20 (5%)	1:17 (6%)	1:14 (7%)	1:12 (8%)	1:11 (9%)	1:10 (10%)
Refractometer Reading (Brix Scale)	1.7	2.2	2.8	3.3	3.9	4.4	5.0	5.5

MAXUS M2 Performance Advantages

- + Unique Tool / Wheel Performance - Excellent cooling properties and extreme pressure lubricity combine to provide extended tool life.
- + Excellent Cleanliness – Remains transparent ; good settling properties provide for ease of contaminant removal; low foaming; No hard to remove residue on machinesurfaces. Good choice for central recovery systems.
- +Exceptional Corrosion Control - Prevents in-process corrosion of work pieces and machine tool parts.
- +Long Life - More tolerant of hard water and tramp oils and has a high resistance to rancidity for longer sump life.
- +High operator exceptance.
- +Formulated for improved health and environmental acceptance.

Typical Physical Characteristics

Weight, (lb.s / gal.)	.	.	.	.	.	8.75
Specific Gravity, 60/60F	.	.	.	.	.	1.05
Flash Point, COC F	.	.	.	.	.	none
pH, fresh,1:20 (5%) dilution	.	.	.	.	.	9.5
Color, dilution.	.	.	.	.	opaque/blue-green	
Color, concentrate	.	.	.	.	available undyed & blue-green	

Packaging

MAXUS M2 is available in 55 gallon steel drums, totes and bulk quantities.

Shipping Identification / Labeling:

CHEMICAL / RUST PREVENTIVE COMPOUNDS
CLASS 65 NPMC 50234. NOT DOT REGULATED

Please ask your Maxim Metalworking Lubricants representative for information on other products from the MAXUS line. The new generation of chemically compatible high performance metalworking fluids, slideway lubricants, and tapping fluids. MAXUS is "Cutting Edge Chemistry".

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