

MAXUS GS.8 PREMIUM CUTTING AND GRINDING FLUID

Maxus GS.8 represents the next generation of Maxim's GS series of water-extendable metalworking fluids.

Maxus GS.8 performs exceptionally in a variety of machine operations. When mixed with water, **Maxus GS.8** forms a near-transparent micro-emulsion that exhibits excellent cooling properties for superior finishes and increased tool life.

Maxus GS.8 is recommended for use in operations involving the most difficult to machine alloys including stainless, titanium and high nickel steels. **Maxus GS.8** is formulated free of chlorinated extreme pressure components as well as active sulfur.

Excellent cleanliness, remarkable performance, and extended fluid life are benefits of using **Maxus GS.8**. These are just a few features that elevate Maxus GS.8 to realize high marks in overall facility acceptance.

Maxus GS.8 remains highly transparent to afford the machine operator full view of the work. **Maxus GS.8** remains fluid upon the surfaces of the machining center allowing slideways, chucks, and tooling to work freely without a hard-to-clean dry or sticky residue. The opaque emulsion is low-foaming, and mixes easily in both soft and hard water. Good settling properties provide for ease of contaminant removal and good filterability.

Maxus GS.8 is formulated for enhanced environmental acceptance. Through an effective, biostable system, **Maxus GS.8** yields a stronger resistance to microbial degradation than conventional metalworking fluids, and does so without the use of DCHA, formaldehyde, nor formaldehyde releasing biocides. Extended fluid life can be expected in machine sumps and in central coolant systems without extraordinary maintenance procedures.

Maxus GS.8 incorporates a three part corrosion preventive package that provides complete protection for machine surfaces and parts in process. **Maxus GS.8** also contains a copper brightener as well as an inhibitor to prevent galvanic corrosion between stacked parts. This feature makes **Maxus GS.8** well suited for the machining of copper and its alloys as well as a variety of machine operations on aluminum and many aerospace alloys.

This nor any high-water-based material should be used to machine magnesium alloys.

The use of a superior slideway lubricant such as Maxim's "Dura Way" lubricants is recommended.

Recommended Starting Dilutions

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

Grinding - centerless, surface, cylindrical, internal, belt, and disk
1 : 33 (3%) to 1 : 14 (7%)

Concentration	1:33	1:25	1:20	1:17	1:12	1:10
	(3%)	(4%)	(5%)	(6%)	(8%)	(10%)
Refractometer						
Reading	1.8	2.4	3.0	3.6	4.8	6.0
(Brix Scale)	Reading x 1.7 = Concentration (%)					

Maxus GS.8 Performance Advantages

- ▶ Unique Tool / Wheel Performance - Excellent cooling properties and extreme pressure lubricity combine to provide extended tool life.
- ▶ Exceptional Corrosion Control - Prevents in-process corrosion of work pieces and machine tool parts.
- ▶ High Operator Acceptance- Excellent cleanliness; remains translucent; good settling properties provide for ease of contaminant removal; low foaming; non-drying on machine surfaces.
- ▶ Long Life - More tolerant of hard water and tramp oils and has a high biological resistance for extended sump life.
- ▶ Formulated for Enhanced Environmental Acceptance- Free of corrosive chlorine, Chlorinated Paraffins(CP), DEA, DCHA, formaldehyde or formaldehyde releasing biocides.

Typical Physical Characteristics

Weight, (lbs. / gal.)	.	.	.	.	.	8.6
Specific Gravity, 60/60F	.	.	.	.	.	1.03
Flash Point, COC F	.	.	.	.	.	none
pH, fresh, 1:20 (5%) dilution	.	.	.	.	.	9.6-9.8
Color, Appearance dilution	.	.	.	.	.	translucent
Color, concentrate	.	.	.	.	.	Standard undyed, available blue, red

Packaging

MAXUS GS.8 is available in 55 gallon steel drums, totes and bulk quantities.

Shipping Identification / Labeling:

PETROLEUM / CHEMICAL COMPOUNDS
CLASS 55 NFMC 48580 SUB.4
NOT DOT REGULATED

Label: Amine based compound - Possible eye irritant due to alkalinity in concentrate. Water-diluted material is not expected to be primary eye irritant when used as recommended. Read and understand Material Safety Data Sheet before handling or disposing of this product.

HMIS	
Health	1
Flammability	1
Reactivity	0
Personal Protection	C

For additional information, product samples, etc., please contact;
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