

MAXUS Q-LS

MAXUS Q-LS is a water extendible, general purpose semi-synthetic cutting and grinding fluid formulated to perform exceptionally in a variety of machine operations.

MAXUS Q-LS, when mixed with water, forms a water-thin transparent micro-emulsion that exhibits excellent cooling properties for superior finishes and increased tool life. **Q-LS** is recommended for use when machining, sawing and grinding ferrous and non ferrous materials where machinability requirements range from mild to moderately severe. The substantial amount of EP additives and high mole weight polymerized esters yield a non-tacky, but significantly enhanced performance in boundary lubrication. For this reason, the **Q-LS** is also recommended for use in stamping, tube rolling, drawing and forming operations where the severity of the application is light to moderate. The opaque emulsion is non-foaming, chlorine free, and is easy to mix in both soft and hard water.

MAXUS Q-LS remains highly transparent to afford the machine operator full view of the work.

The effective biostatic system formulated into the **Q-LS** yields a high resistance to microbial degradation and rancidity; this allows for longer coolant life in machine sumps and central coolant systems without special maintenance procedures. Unlike many solubles and synthetics, the **Q-LS** 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 or sticky residue.

MAXUS Q-LS incorporates a corrosion-inhibitor package provides excellent protection for machine tool surfaces and parts in process. **Q-LS** is formulated without the use of boron, chloro-paraffins, DEA, DCHA, formaldehyde, nor formaldehyde releasing biocides. **MAXUS Q-LS** also contains an inhibitor to prevent galvanic corrosion between stacked parts. This feature makes the **Q-LS** well suited for the machining of cast iron, most alloys of copper, and a variety of machine operations on aluminum alloys.

Recommended Starting Dilutions

Machining - drilling, turning, milling, tapping, boring, and reaming
1 : 20 (5%) to 1 : 10 (10%)

Sawing / Grinding - centerless, surface, cylindrical, internal.
1 : 20 (5%) 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 (Brix Scale)	1.5	1.9	2.4	2.9	3.8	4.8
	Reading x 2.08 = Concentration (%)					

MAXUS Q-LS Continued

MAXUS Q-LS Performance Advantages

- + Unique Tool / Wheel Performance - Excellent cooling properties and extreme pressure lubricity combine to provide extended tool life.
- + Excellent Cleanliness - Remains semi-transparent ; good settling properties provide for ease of contaminant removal; low foaming; non-drying on machine surfaces.
- + 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 acceptance.

Typical Physical Characteristics

Specific Gravity, 60/60F	.	.	.	.	.	1.03
Flash Point, COC F	.	.	.	.	.	none
pH, fresh, 1:20 (5%) dilution	.	.	.	.	.	9.6-9.8
Color, dilution	.	.	.	.	.	opaque/undyed or blue
Color, concentrate	.	.	.	.	.	undyed or blue- Also available in Red upon request

Packaging

MAXUS Q-LS is available in 55 gallon steel drums, totes and bulk quantities.

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