

VALONA BIO 2023 S



METALWORKING



TOTAL

Biodegradable Cutting Oil for Moderate/Severe Machining.

APPLICATIONS

- **VALONA BIO 2023 S** is a clear, yellow cutting oil formulated with vegetable oil and fortified with an inactive sulfur additive. It is inhibited against oxidation to prevent gumminess around the machine and workpieces.
- **VALONA BIO 2023 S** is used on all cutting operations on all ferrous metals and non-ferrous metals. It is free of chlorine and does not contain any metals. It is biodegradable according to the CEC L-33-T-82 test method.
- Operations include: moderate to severe machining such as stamping, sawing, tapping, drilling, milling, and turning on all metals. It is superior to mineral oil based fluids in high speed Swiss screw machines.

ADVANTAGES



- Chlorine/metal free.
- Superior surface finish.
- Superior lubricity properties--Increases the tool and die life.
- 100% biodegradable.
- Handles a broad spectrum of metals.
- Excellent metal wetting ability.
- Reduces friction.
- Reduces smoke.

TYPICAL CHARACTERISTICS	VALONA BIO 2023 S
Appearance	Clear Light Yellow Liquid
Color, ASTM D-1500	1.5
Viscosity at 40°C, cSt	31.5 - 38.5
Density @ 60 °F, lbs./gal.	7.67
Specific Gravity @ 60/60 °F	0.919
Flash Point, COC, °F	445
Copper Strip Corrosion	1A-1B
Lubricity Content, %wt.	> 90.0
Sulfur Content, %wt.	1.5
Chlorine Content, %wt.	Nil

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