

Name: Val-Swiss 10
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ValCool, LLC
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VAL-SWISS 10

VEGETABLE ESTER BASED CUTTING OIL

DESCRIPTION

Val-Swiss 10 is a high performance synthetic ester based cutting oil designed for heavy duty applications including swiss style machining, gun drilling, milling, turning, threading and grinding. Made from renewable resources, Val-Swiss 10 outperforms mineral oil based fluids and is suitable for virtually all materials and tools. Val-Swiss 10 provides for a clean workplace environment and its high flash point is a safer alternative compared to mineral oil based fluids. Low viscosity optimizes chip removal rates and its unique chemistry is more compatible with operator's skin than traditional mineral oil based fluids.

FEATURES & BENEFITS

- Chlorine, phenol and boron free
- Low misting properties
- Extended tool life with increased production rates
- Excellent chip removal rates
- Exceptional lubrication properties
- Outstanding surface finish
- Non-irritating to operators' skin

METAL COMPATIBILITY

- Alloys made of steel
- Titanium alloys
- Hi Temp Alloys
- Aluminum alloys
- Aluminum
- Tungsten Carbon
- Stainless Steel
- Copper alloys
- Cast Iron
- Titanium
- Tool Steel
- Nickel alloys

HEALTH & SAFETY

See the most recent SDS which is available directly from ValCOOL, your local representative or authorized distributor. ValCOOL uses only raw materials not listed as carcinogenic by IRAC.

PROPERTIES

Appearance:	Clear Yellow Liquid
Diluted Appearance:	N/A
Solubility in Water:	Does not mix
Odor:	Mild Industrial
Specific Gravity:	0.87
Sulfur Content (%):	1.6
Flash Point (°F):	>390°F
ISO Viscosity @ 40°C:	10

APPLICATION & USAGE

ValCOOL recommends using Val-U-Clean or K-5-P cleaner before adding Val-Swiss 10 to a machine.

Val-Swiss 10 is a straight cutting oil so mixing with water is not required.

Maintaining the Val-Swiss 10 at its optimum performance is achieved through good fluid filtration practices.

No special precautions are necessary with respect to seals or valves.

Fluid compatibility and machinability should always be tested first; as fluid concentration, metal alloy, and machining operation are variable.