

Name: VP920P

Revision Date: 11/14/2017 – R1

ValCool, LLC

5230 Brittmoore Rd
Houston, TX 77041

VP920P

SYNTHETIC CUTTING & GRINDING FLUID

DESCRIPTION

VP920P is a synthetic metalworking fluid designed for the grinding of steel metals in light to moderate machining. The product is exceptionally clean with the ability to reject tramp oil and extend sump life. VP920P is non-aggressive to the machining environment and possesses a chemistry that is machinist friendly to those using it. Due to the product's excellent rust inhibition, the product is a favorite for customers machining cast iron. VP920P has excellent foam control and filtering properties lending itself as an excellent choice for large grinding machines that have paper index filter systems. VP920P is designed with a versatile bio-dynamic protection package. This enables the working fluid in the sump to resist and react against bacteria and fungi growth.

FEATURES & BENEFITS

- Chlorine, sulfur, phenol and boron free
- Low to no foam
- Extended tool life with increased production rates
- Best in class resistance to bacteria growth
- Exceptional tramp oil rejection
- Outstanding surface finish
- Non-irritating to operators' skin

METAL COMPATIBILITY

- Steel
- Cast Iron
- Stainless Steel
- Titanium
- Inconel
- High Carbon Steels
- High Temp Alloys
- 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 Blue Liquid
Diluted Appearance:	Clear Blue
Solubility:	Clear micro-emulsion
Odor:	Mild Industrial
Specific Gravity:	1.03
Concentrate pH:	9.5
pH, 5 % dilution:	9.4
Freeze/Thaw Cycles:	Passed 3x

APPLICATION & USAGE

ValCOOL recommends using Val-U-Clean or K-5-P cleaner before adding VP920P to a machine.

The recommended concentration for VP920P is 3-10% for optimum results. However, results for any operation can only be determined through testing.

Maintaining the coolant at its optimum concentration is achieved through daily refractive index checking.

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

REFRACTIVE INDEX MONITORING

3.6 x multiplier

Percentage	Ratio	Refractometer Reading
5	19 to 1	1.4
10	9 to 1	2.8
15	6 to 1	4.2
20	4 to 1	5.6

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