



ValCOOL, LLC  
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# VP-920P

## **SYNTHETIC CUTTING & GRINDING FLUID**

### **DESCRIPTION**

VP-920P is a synthetic metalworking fluid designed for the grinding of steel metals and light to moderate machining. The product is exceptionally clean with the ability to reject tramp oil and extend sump life. VP-920P 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. VP-920P has excellent foam control and filtering properties lending itself to be an excellent choice for large grinding machines that have paper index filter systems.

VP-920P 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.

### **PHYSICAL DATA**

Appearance:	Clear Liquid
Solubility:	Clear micro-emulsion
Odor:	Mild industrial
RI Multiplier:	3.6

### **APPLICATION AND USAGE**

VP-920P is a synthetic metal removal fluid concentrate meant to be extended in water.

- A starting concentration of 3.0% - 8.0% is recommended for most metal removal operations. Optimal concentrations may vary depending on the particular alloy.
- Always add VP-920P to water. To reduce use and optimize performance, it is best to pre-mix with water prior to filling the fluid system or adding make-up.
- A calibrated refractometer should be used to determine the fluid concentration. To determine the concentration, use the following formula: Concentration (%) = %Brix (Refractive Index) x 3.6 (RI Multiplier)

VP-920P is engineered to perform well on difficult multi-point metal removal operations such as: milling, turning, drilling, reaming, boring, sawing, and grinding.

Metal Compatibility\*: Steel, Cast Iron, Stainless Steel, Titanium, Inconel, Aluminum, Copper, Brass

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

**REFRACTIVE INDEX MONITORING**  
**(3.6X multiplier)**

<b>LABORATORY INFORMATION</b>		
Percent	Ratio	Refractometer Reading
5	19 to 1	1.40
10	9 to 1	2.80
15	6 to 1	4.20
20	4 to 1	5.60

**FEATURES & BENEFITS**

- Chlorine-free chemistry
- Low foam chemistry
- Significant increases in tool life
- Best in class resistance to bacteria growth
- Exceptional tramp oil rejection
- Non-irritating to operators' skin

**HANDLING PRECAUTIONS**

VP-920P is safe to handle in concentrated or diluted form. Exercise care consistent with good industrial practices. Adhere to prevailing OSHA safety regulations, guidelines and/or procedures for this class of product. Refer to VP-920P Safety Data Sheet for additional information

**HEALTH & SAFETY**

See the most recent SDS. Only raw materials not listed as carcinogenic by IRAC are used in this product.