



ValCOOL, LLC
5230 Brittmoore Rd.
Houston, TX 77041

VP-950P

SYNTHETIC CUTTING & GRINDING FLUID

DESCRIPTION

VP-950P is a heavy duty synthetic metalworking fluid for processes requiring significant cooling of the tool and work piece interface. The product is sulfur and chlorine free and suitable for all alloys. The product is an excellent choice for machining titanium and strategic alloys yet versatile enough to machine aluminum, cast iron, and carbon steels. Additionally, VP-950P has excellent long term sump life properties. The product creates no foam during production runs and has best in class resistance to bacteria and fungus. VP-950P is approved for MIL STD 2041-D naval nuclear operations. Additionally, the product is suitable and found in many aerospace and medical applications.

PHYSICAL DATA

Appearance:	Clear Liquid
Solubility:	Clear micro-emulsion
Odor:	Mild industrial
RI Multiplier:	2.0

APPLICATION AND USAGE

VP-950P 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-950P 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 2.0 (RI Multiplier)

VP-950P 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.



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REFRACTIVE INDEX MONITORING
(2.0X multiplier)

LABORATORY INFORMATION		
Percent	Ratio	Refractometer Reading
5	19 to 1	2.50
10	9 to 1	5.00
15	6 to 1	7.50
20	4 to 1	10.00

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-950P 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-950P 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.