

# WALTER VALENITE VALCOOL® VP650

## Soluble Oil Emulsion Metalworking Fluid

VP650 is a soluble oil emulsion that will machine cast iron, nodular iron, and steel as well as other non-ferrous metals. VP650 works well in most metal removal operations and is designed for even the most difficult machining.

### KEY PRODUCT BENEFITS

- Excellent bio-resistance
- Extremely stable micro-emulsion for superior wetting ability
- Excellent corrosion properties, including vapor phase inhibition
- Improved tool life and wheel life
- Mild, non-offensive odor
- Operator friendly product

### SPECIALIZED LUBRICATION FUNCTION

VP650 has a special group of selective extreme pressure ingredients that work together to improve the film boundary characteristics, chip forming capabilities, and heat dissipation. This fluid has properly balanced wetting agents that enhance the penetration of the lubricant directly into the cutting zone. The EP additive package is designed to develop a very thin molecular layer of chemical/metal material that will reduce friction and cool the part and tool.

### CORROSION PROTECTION

VP650 incorporates not only the more familiar water based fluid corrosion protection technology, but also exhibits vapor phase inhibition properties.

### LABORATORY INFORMATION

Appearance, Neat	Dark Amber
Appearance, 5% Dilution	Milk White Emulsion
Specific Gravity	.947 +/- .02
Pounds per Gallon	9.06 +/- .02
pH, 5% Dilution	7.88 lbs.

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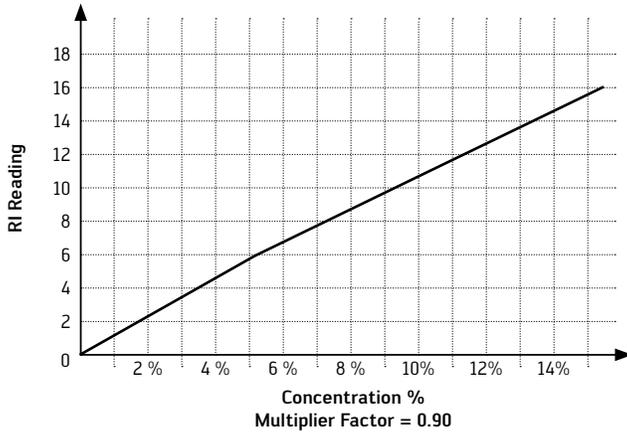
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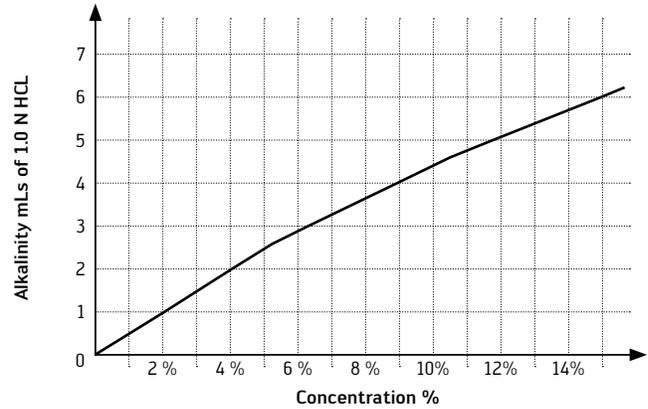
## \_ MONITORING CONCENTRATION

VP650 has been quality control tested at a water hardness of 1500 ppm, roughly three times the naturally occurring maximum. Although it works best in 5% to 8% concentrations, it can be used in concentrations and temperatures that are applicable for specific machining operations.

**Refractive Index Concentration**



**Alkalinity Concentration**



In order to maintain a bacteria free environment, thoroughly clean all areas of the coolant system before charging it with new coolant.

### INSTRUCTIONS FOR USE

1. Determine the system size
2. Multiply the total system size by the recommended % of VP650
3. Slowly add the recommended amount of VP650 to the water and mix well
4. Always add VP650 to water, never in reverse order

### Available Quantities:

5 gallon pails, 55 gallon drums, 220 gallon disposable totes, 275 gallon bins, bulk tanker

For more safety information visit: [www.osha.gov/SLTC/metalworkingfluids/metalworkingfluids\\_manual.html](http://www.osha.gov/SLTC/metalworkingfluids/metalworkingfluids_manual.html)

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