

## **WS 8800**

### **GENERAL DESCRIPTION**

WS 8800 is a high performance, chlorine-free coolant for machining and grinding of ferrous and non-ferrous metals. It has proven especially effective in machining all alloys of aluminum. WS 8800 is formulated with the most advanced bio-resistant additive technology to provide the highest level of performance in controlling bacteria and fungus to eliminate odors. WS 8800 extends sump life, reduces waste disposal costs, and offers exceptional tool life to reduce tooling costs. It is operator and machine friendly.

### **PERFORMANCE BENEFITS**

- Universal fluid for a wide range of metals, including: stainless steel, titanium, cast aluminum alloys, ferrous metals, and cast iron.
- Long-lasting fluid makes it ideal for both central systems and individual sumps.
- Non-sticky ó protects against fouling valves and switches.
- Foam control makes it ideal for high pressure CNC machining.
- Excellent rust and corrosion protection for inner workings of machine tool.
- Extreme pressure lubrication extends tool life.
- Rejects tramp oil for easy skimming.

### **TYPICAL PROPERTIES**

Appearance.í í í í í í í í í ... Clear blue liquid

pH @ 5% solutioní í í í í í í . 9.1

Weight, lbs/gal.í í í í í í í í .. 8.7

Refractometer Factor.í í í í í í í .1.9

### **RECOMMENDED CONCENTRATION**

### **REFRACTOMETER READING**

Grindingí í í í í í í í í í í .4 - 6%

2.1 ó 3.2

Machiningí í í í í í í í í í í .6 - 8%

3.2 ó 4.2

Tapping.í í í í í í í í í í í .8 - 12%

4.2 ó 6.3

### **CONCENTRATION CALCULATION**

% Concentration = Refractometer Reading x Refractometer Factor

Note: Always calibrate the refractometer so that it reads 0.0 with water that will be mixed with the machining coolant.

### **THE EFFECTS OF WATER QUALITY ON EMULSION STABILITY**

To obtain the best performance from any water miscible metalworking fluid, good quality water is essential. Water hardness is a key determinate of water quality. It is typically measured in parts per million (PPM) of calcium carbonate and varies by region of the country. The ideal water hardness range is between 75 PPM and 175 PPM. For soft water (less than 75 PPM), the metalworking fluid may foam. Exceptionally hard water (above 200 PPM) can have a de-stabilizing effect on the coolant. For high water hardness, we recommend using the hard water version of our coolant. In addition to water hardness, high levels of chloride ions can adversely affect the rust inhibiting characteristic of a coolant. Our lab can help you determine the quality of your water.

### **MIXING INSTRUCTIONS**

- Always pre-mix coolant before adding it to the machine.
- If mixing by hand, always **add the coolant concentrate** to water, then agitate.
- For best results, a proportioner should be used.
- Since water evaporates from the coolant, the concentration will increase over time. To maintain the recommended concentration, makeup coolant should be pre-mixed at half the % concentration as the initial fill.

### **SHIPPING CONTAINERS**

Available in 5 gallon pails, 55 gallon drums, 275 gallon totes or bulk deliveries.

### **HEALTH & SAFETY**

Material Safety Data Sheets are available for all Wallover products. Consult the MSDS for information regarding the storage, handling and disposal of a product.

### **WARRANTY**

All reasonable effort has been made to ensure that the information provided in this publication is accurate. No warranties are expressed or implied since the use of this product is beyond our control.