

Research, Development & Manufacturing of Metalworking Lubricants

S-500[®] CF (Coolant Concentrate: Water Soluble Oil)

FEATURES

- Chlorine Free Extreme Pressure Technology
- Excellent Sump Life
- General Purpose
- Long Lasting And Bio-Stable

- Maximizes Tool Life
- Non-Hazardous
- Non-Irritating
- Non-Toxic

Approved, Certified, and Conforms to: Airbus, American Airlines, Boeing, Bombardier, Lockheed-Martin, Lord Corp., Safran Messier-Buggati-Dowty, Pratt & Whitney, United Technologies, and Rolls Royce

GENERAL DESCRIPTION

The first choice for general machining for all metals and non-traditional materials. The EP properties produce excellent results over a broad range of manufacturing conditions. This general-purpose product satisfies some of the most demanding manufacturing operations from stamping, milling and turning processes. Amine free and safe on all materials while providing the best finishes and tool life on aluminum, steel to stainless steel.

APPLICATIONS							
	Primary		Secondary				
	Blanchard	Reaming	Burnishing	Forming			
Ī	Drilling	Stamping	Broaching	Surface Grinding			
	Milling	Turning	Creep Feed Grinding				

MATERIALS							
Primary	imary		Secondary				
Aluminum	Plastics	Brass	Glass				
Chromium Alloys	Powdered Metals	Bronze	Graphite				
High Temp Alloys	Precious Metals	Ceramics	Refractory Metals				
Molybdenum	Steel	Copper	Stainless Steel				
Nickel Alloys	Titanium						

INSTRUCTIONS

Always premix coolant before adding to the machine sump. When mixing coolant by hand it is important to always add the concentrate to the water and then agitate. For best results, a Hangsterfer's recommended proportioning unit should be used. To maintain recommended concentration, make-up should be added at one-half the desired concentration. Always check concentration with a Refractometer. To maintain 6%: first charge the machine at 6%, then, as needed, add make-up as much as 3%. Avoid adding straight water or concentrate directly to the machine.

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OPERATION	CONCENTRATION			
	%	Ratio Concentrate: Water	Refractometer	
General Grinding	5	1:20	5	
General Machining and Turning	7.5	1:13	7.5	
Grinding with aggressive feed rates	10	1:10	10	
Drilling, Tapping, Reaming	10	1:10	10	
Light Stamping and Forming	10	1:10	10	

MAINTENANCE

S-500 CF is a bio-stable coolant, designed to control the growth of bacteria. Regular maintenance is required for maximum performance. Concentration should be monitored regular with a calibrated refractometer. **S-500 CF** gives a direct read on the refractometer (E.G. 5=5%).

PRODUCT CHARACTERISTICS						
Product Name: S-500 CF						
Form	Liquid	Concentration Dilution Table				
Color	Green					
Odor	Mild					
Specific Gravity	0.93 - 0.95	%	Ratio Concentrate: Water	Refractometer		
Viscosity: SUS @ 100°F	159 - 188	20%	1:5	20		
cSt @ 40°C	34 - 40	15%	1:7	15		
Flash Point, COC, °F/°C	324 / 162	10%	1:10	10		
Fire Point, COC, °F/°C	N/A	7.5%	1:13	7.5		
Pour Point, °F/°C	<0/-18	5%	1:20	5		
Solubility in Water	100%	4%	1:25	4		
Boiling Point, °F/°C	289 / 143	3%	1:33	3		
Vapor Pressure, mm Hg @ 25°	<0.01	2.5%	1:40	2.5		
pH @ 10%	9.0 - 9.4	2%	1:50	2		
Chlorine	0%	1%	1:10	1		

Refractive Index Multiplier = 1

WASTE TREATMENT

Dispose of in accordance with local, state, federal and international laws. If and when it is necessary to dispose of waste fluids, the amount of waste can be greatly reduced by separating the water from the oil and contaminants which accumulate through normal machining. You can often reduce your waste disposal by more than 80% through conventional methods such as Ultra-Filtration, Chemical Treatment or Evaporation. After approval by your local, state, or federal authorities, the waste water may be sent to the sewer or discharged into waters, and the separated oils may be removed for recycling, sale or disposal.

SHIPPING UNITS

All Hangsterfer's products are available in pails, drums and Intermediate Bulk Containers (275 gallons). All products are distributed worldwide.

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