

S-737® Vegetable-Based Micro-Emulsion

FEATURES

- Excellent Tool Life
- Long Lasting and Bio-Resistant
- Very Clean and Low Residue
- Low Hydrocarbon Content
- High-Pressure Capable with Low Foam
- Chlorine-Free Extreme Pressure Technology
- Excellent Corrosion Control
- Very Low Consumption

GENERAL DESCRIPTION

S-737 is a time tested and proven vegetable-based technology from Hangsterfer's Laboratories. The low hydrocarbon formula utilizes special vegetable derived ingredients to achieve outstanding results in a wide variety of applications. The unique lubricity characteristics of S-737 allow for excellent results in environments where steels and cast iron materials are predominant. S-737 is a chlorine-free, vegetable-based micro-emulsion that provides excellent cleanliness and tramp oil rejection, especially for high pressure coolant systems that are over 1500 psi, and for companies that run lights out. The natural translucent formula provides good workpiece visibility, very low consumption, and often reduces coolant consumption by more than 20%!

APPLICATIONS

Primary		Secondary	
Cutting / Sawing	Milling	Blanking	Punching
Drilling	Thread Cutting	Blanchard Grinding	Shaving
Forming	Turning	Centerless Grinding	Stamping
Gun Drilling		Creep Feed Grinding	Surface Grinding

MATERIALS

Primary		Secondary	
Cast Iron / all forms	Powdered Metals / Ferrous	Aluminum	Plastic
Ceramics	Stainless Steel / All Grades	Brass / Bronze	Precious Metals
Composites	Steel Low / High Carbon	Copper	

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-fourth 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 1.5%. Avoid adding straight water or concentrate directly to the machine.

OPERATION	CONCENTRATION		
	%	Ratio Concentrate: Water	Refractometer
General Machining	4 - 8	1:25 - 1:13	1.0 - 1.9
Heavy Duty Machining	6 - 12	1:17 - 1:8	1.4 - 2.9
General Grinding	4 - 6	1:25 - 1:17	1.0 - 1.4
Heavy Duty Grinding	6 - 8	1:17 - 1:13	1.4 - 1.9
Stamping and Forming	4 - 12	1:25 - 1:8	1.0 - 2.9

MAINTENANCE

S-737 is a bio-resistant emulsion designed to control the growth of bacteria and fungus. Regular maintenance is required for maximum performance. Concentration should be monitored regularly with a calibrated refractometer. The refractometer reading needs to be multiplied by 4.2 in order to determine the actual concentration (e.g. 1.4 on the Refractometer = 6%). Tramp oils should be removed from the coolant surface regularly to help reduce bacterial growth. Keep the coolant system free of cleaners, solvents, and other contaminants.

PRODUCT CHARACTERISTICS

Product Name: S-737		Concentration Dilution Table		
Form	Liquid	%	Ratio Concentrate: Water	Refractometer
Color	Amber	10%	1:10	2.4
Odor	Mild	9%	1:11	2.1
Specific Gravity	1.01	8%	1:13	1.9
Viscosity: SUS @ 100°F	35	7%	1:14	1.7
cSt @ 40°C	2.8	6%	1:17	1.4
Flash Point, COC, °F/°C	Non-Flammable	5%	1:20	1.2
Fire Point, COC, °F/°C	Non-Flammable	4%	1:25	1.0
Solubility in Water	100%	3%	1:33	0.7
pH @ 10%	9.5	2%	1:50	0.5
Chlorine	0%	1%	1:100	0.2

Refractive Index Multiplier = 4.2

WASTE TREATMENT

If and when it is necessary to dispose of the waste coolant, the amount of coolant waste can be greatly reduced by separating the water from the oil and various contaminants which accumulate through normal machining. You can often reduce your waste disposal by more than 80%. Hangsterfer's recommends Ultra-Filtration, Chemical Treatment or Evaporation for removal of fats, oils, greases and heavy metals prior to disposal of the water phase. After approval by your local, state, or federal authorities, the waste water may be sewered, and the separated oils removed for recycling or disposal.

SHIPPING UNITS

All Hangsterfer's products are available in pails, drums and Intermediate Bulk Containers (275 or 330 gallons). This product is REACH compliant and is distributed worldwide.

8/4/2010 (Rev. 9/23/2011)

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