

Research, Development & Manufacturing of Metalworking Lubricants

Cobalt Grinder® (Synthetic Coolant Concentrate)

FEATURES

No Cobalt Leaching

Dye-Free

Excellent Cleanability

Excellent Filterability

Low Odor

Low pH at In-Use Dilution

Mild to Operators

Non-Foaming

GENERAL DESCRIPTION

Hangsterfer's **Cobalt Grinder** is a pure synthetic coolant deigned for the grinding of carbide. Cobalt leaching is a concern when grinding carbide materials with water-based coolants, and the **Cobalt Grinder** addresses these issues. Designed with the ability to inhibit cobalt leaching, this product allows for the use of water when grinding carbide materials. Filterability is excellent as is work piece visibility. The **Cobalt Grinder** may be cleaned with any aqueous or solvent-based parts cleaning system.

APPLICATIONS				
Primary		Secondary		
Centerless Grinding	Plunge Form Grinding	Creep Feed Grinding		
Grinding	Surface Grinding	Milling		
ID/OD Grinding	Tool & Cutter Grinding	Turning		

MATERIALS					
Primary		Secondary	Secondary		
Aluminum	Nickel Alloys	Brass	Glass		
Carbide	Titanium	Composites	Plastic		
Carbon Steel	Tool Steel	Copper	Refractory Metals		
Ceramics	Tungsten	Iron: Cast Iron, Duc	tile		

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. To maintain 5%: first charge the machine at 5%, then as needed add make-up at 2.5%. Never add straight water or concentrate directly to machine.

MAINTENANCE

Cobalt Grinder is a bio-stable coolant, designed to control the growth of bacteria. Regular maintenance is required for maximum performance. Concentration should be monitored regularly with a calibrated refractometer. The refractometer reading needs to be multiplied by 4.5 in order to determine the actual concentration (e.g. 1 on refractometer = 4.5 %). Tramp oils should be removed from the coolant surface regularly to prevent unwanted bacterial growth. Keep the coolant system free of cleaners, solvents and other contaminants. Please note that the **Cobalt Grinder** will run clear at design levels of 5%. If it drops below design levels, it will start to turn pink, indicating the presence of cobalt in the solution. Always maintain correct concentrations.

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PRODUCT CHARACTERISTICS				
Product Name: Cobalt G	rinder			
Form	Liquid	Refractive Index Multiplier = 4.5		
Color	Golden			
Odor	Mild			
Specific Gravity	1.02 - 1.04	Free Of:		
Viscosity: SUS @ 100°F	32 - 40	Boron		
cSt @ 40°C	1 - 4	Chlorine Diethanolamine (DEA) Nitrite Nitrate Ozonic Depleting Chemicals		
Flash Point, COC, °F/°C	N/A			
Fire Point, COC, °F/°C	N/A			
Pour Point, °F/°C	N/A			
Solubility in Water	100%			
Boiling Point, °F/°C	199°F/93°C	PCB'S		
Vapor Pressure, mm Hg @ 25°	12.2 psi	Phosphorous Sulfur		
pH @ 10%	9.3 - 9.7	Sullui		
Chlorine	No			
Sulfur	No			

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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