

Research, Development & Manufacturing of Metalworking Lubricants

# Grinding Oil 1 Straight Grinding Oil

#### **FEATURES**

- Translucent and low odor
- Non irritating / Non corrosive
- Excellent filter-ability
- Superior lubricity package

- Superior cooling properties
- Produces excellent surface finishes
- All grinding wheel compatible
- Excellent oxidation Stability / Long sump life

#### GENERAL DESCRIPTION

Grinding Oil 1 is compatible with all types of grinding wheels. It can be used for grinding high-speed steel, cobalt, carbide, ceramics and hardened steel. Grinding Oil 1 can also be used in grinders that require the same oil for both lubricating the machine and the wheel / work-piece interface.

Unique advanced synthetic and natural lubricity additives in Grinding Oil 1 help keep the grinding wheels clean and free cutting allowing them to function properly. Conventional oils can allow build-up and packing of the wheel. This can lead to burned parts, smoke and scrap parts. Grinding Oil 1 helps maintain part integrity, surface finish and an overall great working environment.

APPLICATIONS					
Primary		Secondary			
Creep feed	Form	Blanchard			
Crush	ID and OD	Center-less			
Cylindrical	Production	Milling Small Tooling			
Diamond and CBN Wheel	Tool & Cutter				
Dual-Purpose Grinding/Hydraulic					

MATERIALS					
Primary		Secondary			
Carbide	High Speed Steel	Glass			
Ceramics	Harden Steel				
Cobalt Steel	Tool Steel				

### **INSTRUCTIONS**

Grinding Oil 1 is used as is from the drum. Do not add water or any other additives unless recommended by Hangsterfer's Labs. Rotate your stock and use the oldest product first. Store drums inside when possible per all local and federal laws.

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### **MAINTENANCE**

Proper filtering and moisture removing media is recommended to extend the life of the Grinding Oil. Grinding Oil 1 can be filtered down or centrifuged (high speed) to one micron.

When changing brands of oil or replacing spent oil proper cleaning will extend the life of your product. Change or clean all filtering media and wash with Hangsterfer's Ozonics. Removal of grinding fines will improve your process and extend the life of the Grinding Oil.

Hangsterfer's Labs will test and report on the overall condition of the Grinding Oil. It is recommended you use our Lab services to ensure proper diagnostics are done.

PRODUCT CHARACTERISTICS					
Product Name: Grinding Oil 1					
Form	Liquid				
Color	Amber				
Odor	Mild				
Specific Gravity	0.85				
Viscosity: SUS @ 100°F	62				
cSt @ 40°C	11				
Flash Point, COC, °F/°C	412 / 211				
Fire Point, COC, °F/°C	421 / 216				
Pour Point, °F/°C	< 0 / -18				
Solubility in Water	< 0.01 %				
Boiling Point, °F/°C	478 / 248				
Vapor Pressure, mm Hg @ 25°	< 0.01				
pH @ 10%	N/A				
Chlorine	None				

## **WASTE TREATMENT**

While Hangsterfer's oils resist contamination and degradation, contamination may enter the system and may require the oil to be disposed. This may change the disposal procedures. Dispose of in accordance with local, state, federal and international laws.

### SHIPPING UNITS

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

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