

Research, Development & Manufacturing of Metalworking Lubricants

Hard-Cut NG 22 (Straight Cutting Oil)

FEATURES

- Very High Flash Point
- For High Pressure Through The Tool
- Low Foam
- Low Mist

- Non-Toxic and Non-Hazardous
- Advanced Synthetic Oil
- Lower Residue
- Lower Consumption

GENERAL DESCRIPTION

Hangsterfer's has introduced the Next Generation (NG) of our world famous Hard-Cut line of cutting oils. Hard-Cut NG 22 allows Precision Swiss Automatics to perform at their maximum speeds and feeds. The molecular structure of our Hard-Cut NG 22 delivers extreme pressure and anti-wear additives to the tool work-piece interface without compromise to other features that you expect. The unique molecular structure allows the Hard-Cut NG 22 to be free flowing under high pressure through the drill tooling, without foaming. Hard-Cut NG 22's molecular structure behaves in a much different way as compared to ordinary cutting oils. In regard to fire potential, the molecular alignment is in itself, self extinguishing, and greatly lowers the risk of fires.

APPLICATIONS					
Primary		Secondary	Secondary		
Cutting	Tread Cutting	Broaching	Honing		
Gun Drilling	Tread Forming	Gear Cutting	Sawing		
Reaming	Turning	Grinding	Stamping		

MATERIALS					
Primary		Secondary			
Aluminum	Steel	Brass	Magnesium		
Chromium	Stainless Steel	Composites	Powder Metals		
Nickel	Titanium	Copper	Precious Metals		

MAINTENANCE

Maintenance: While straight cutting oils are not susceptible to the broad range of problems encountered with a water-based fluid, regular maintenance does improve their performance and extend their life. The Hard-Cut oils are designed to reject foreign contaminants, such as metal fines. If the performance of the oil begins to deteriorate, remove the oil from the machine and allow it to settle in an empty drum or settling tank for 3-7 days. Fines and contaminants will settle to the bottom. After settling, return the top 80% to the clean machine. In order to get the maximum life from your oil, keep the sump free of cleaners, solvents, rust inhibitors, coolants, water and other contaminants which may inhibit performance.

Cleaning: All Hangsterfer's Cutting Oils are formulated to minimize cleaning time. They are cleanable in both aqueous and solvent systems. For best results use a Hangsterfer's Ozonic series, VS-315 or recommended aqueous cleaner. Both style cleaners work best when heated to 140°F (60°C).

PRODUCT CHARACTERISTICS			
Product Name: Hard-Cut NG 22			
Form	Liquid		
Color	Red		
Odor	Mild		
Specific Gravity	0.89		
Viscosity: cSt @ 40°C	22.5		
Flash Point COC, °F/°C	405 / 207		
Fire Point, COC, °F/°C	478 / 248		
Pour Point, COC, °F/°C	> 0 / > -18		
Solubility in Water	<0.01		
Boiling Point, °F/°C	487 / 253		
Vapor Pressure, mm Hg @ 25°	<0.01		
pH @ 10%	N/A		
Chlorine	Added as EP Additive		

WASTE TREATMENT

Dispose of in accordance with local, state, federal, and international laws. As with most used cutting oils they can often be re-refined or used in energy recovery systems.

SHIPPING UNITS

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

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