



OPTICOOOL™ 572

Description

OPTICOOOL 572 is a high performance blend of synthetic and emulsion technology. OPTICOOOL 572 offers superior lubrication/cooling, corrosion inhibition, extreme pressure resistance, rancidity control and hard water stability. 572 is ideal for multi-task machining centers. The flexible technology and additive package arsenal allows for plant standardization of multi-machining fluids.

Composition

OPTICOOOL 572 blends synthetic and micro-emulsion technology to offer maximum lubrication and cooling properties. The water/oil soluble additive package extends sump life and offers excellent foam control. These additives along with the base lubricant provide both hydrodynamic (barrier film) and boundary lubrication which effectively extend tool life and result in superior surface finish.

OPTICOOOL 572 does not contain nitrites, phenols, sulfur, mercurials, formaldehyde or chlorinated additives.

Properties

- Excellent Lubrication/Cooling Properties
- Excellent Foam Control
- Clean, Safe Work Environment
- Superior Heat Dissipation
- Extreme Pressure Capability
- Excellent Hard Water Stability
- Reduces Mist and Inhalation Hazards
- Resists Microbial Attack
- Excellent Corrosion Protection
- Mild to the Skin

Suggested uses

- Milling
- Turning
- Grinding
- Stamping
- Drawing
- Broaching
- Drilling
- Reaming
- Sawing
- Tapping
- Threading

Directions

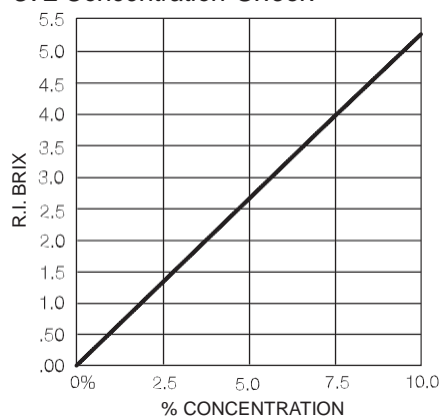
OPTICOOOL 572 should be added to water at the recommended starting point. It is important that the coolant be added to water. Do not add water to the coolant.

Before adding OPTICOOOL 572 to any reservoir remove old coolant, fines and residues from the system. Drain the old coolant from the sump; charge the system with Chesterton's 218HDP Cleaner at 5% concentration. Circulate the cleaner for up to 2 hours through all lines, tool holders and work pieces.

Dilutions in excess of 40:1 are not recommended since the corrosion protection and resistance to bacterial attack will be reduced.

Typical Physical Properties	572
Form	Liquid Concentrate
Appearance 5% Water	Clear, amber
Solubility in Water	Complete
Flash Point	None
Freeze Thaw Stability	Pass
pH Concentrate	9.0 - 9.4
pH 5% Concentration	9.0
Base Fluid	Semi Synthetic
Viscosity cSt @ 40°C	22
Specific Gravity	1.04

572 Concentration Check



Recommended Starting Dilutions

	Alloy Steels	Carbon Steel	Aluminum
Broaching	10%	10%	5%
Boaring	10%	5%	5%
Drilling	10%	5%	5%
Milling	10%	5%	5%
Reaming	10%	5%	5%
Tapping	10%	5%	5%
Turning	5%	5%	5%
Stamping	10%	10%	10%
Drawing	10%	10%	10%
Grinding	4%	4%	4%
Machining	7%	5%	5%

Coolant Maintenance

Concentration of the fluid changes constantly during use due to evaporation and "drag out" on chips. Volume loss to evaporation is 100% water. For maximum performance, the concentration should be monitored and maintained on a regular basis. The Brix chart gives the approximate relationship between coolant concentration and refractometer reading.

Often it is helpful to monitor the sump's pH. If the pH is or drops, below 8.5 the sump requires conditioning. Adding fresh coolant or Opticool additives to restore the pH level, maximizing coolant performance.

Clean Up

Residual Coolant on parts, equipment and machine tools is easily removed by rinsing with water.

Safety

Before using this product, review the Material Safety Data Sheet (MSDS) or the appropriate safety sheet in your area.

Waste Disposal

Primary treatment by an oil separation or settling tank will remove solids and tramp oil. At this point, it is possible that adjustments to the concentration could be made and the coolant may be reclaimed for continued use.

If reclamation is not possible, check with local authorities on proper procedures for disposal.



Fluid Management Systems

Chesterton International GmbH
Am Lenzenfleck 23, 85737 Ismaning, Germany
TEL: +49 89 9965460
www.chesterton.com

© A. W. CHESTERTON Company, 2004. All rights reserved.
® Registered trademark owned and licensed by
A. W. CHESTERTON Company in USA and other countries.

DISTRIBUTED BY:

Technical Data reflects results of laboratory tests and is intended to indicate general characteristics only. A.W. CHESTERTON CO. DISCLAIMS ALL WARRANTIES EXPRESSED, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. LIABILITY, IF ANY, IS LIMITED TO PRODUCT REPLACEMENT ONLY.