



Advanced Lubricants Technology

## PRODUCT INFORMATION

### PERENNIAL SYNKOOL GFC-800 ( ADVANCED BIOSTABLE OIL REJECTING SYNTHETIC WATER SOLUBLE GRINDING FLUID FOR FERROUS AND NON-FERROUS MATERIALS)

#### DESCRIPTION

PERENNIAL SYNKOOL GFC-800 is a newly developed advanced biostable, non-toxic, non-carcinogenic, oil rejecting, fully transparent synthetic water miscible fluids designed to give long sump life and effective grinding performance PERENNIAL SYNKOOL GFC-800 is free of mineral oil and low odor, containing special selected additives fluid and it produces a stable, transparent fluid when mixed with hard/soft water, thus giving good visibility of machining process. It settles chips and swarf quicker than most solubles or synthetics and its' non-tacky, non-gummy, non-residue provides good lubrication for machinery. PERENNIAL SYNKOOL GFC-800 provides a very superior rust protection as shown on the CAST IRON CHIP and HERBERT CORROSION TEST. The use of special ingredients ensures a high resistance to micro-organism, fungal and shows low foam tendency. PERENNIAL SYNKOOL GFC-800 offers very excellent operator acceptance because of its' pleasant odor and compatible to skin. It is completely safe due to no phenols, nitrite, mineral oil, formadhyde.

#### APPLICATIONS

PERENNIAL SYNKOOL GFC-800 is strongly recommended for high heat operations such as surface grinding, double disc grinding, wet abrasive belt for all ferrous metals and non ferrous metals where these operations require close tolerances and optimal surface finished. Typical applications include cylinder grinding of high speed steel, surface grinding of steel and high nickel alloys, and general light machining of cast iron, mild steel, soft alloy steel, aluminum, brass and copper. Depending on the severity of the operation, the following general guidelines may be used :

#### Machining Operation :

Grinding  
General Machining

#### Recommended Dilution

2, 4 – 5 %  
5 – 10 %

The correct method of mixing is to add the recommended amount of concentrate to clean water, stir thoroughly, then add the mixture to the machine coolant system.

#### TECHNICAL DATA

	<u>SYNKOOL GFC-800</u>
Type	: Fully Synthetic, oil rejecting
Appearance	: Fluorescent Green Fully Transparent Fluid
Odor	: Bland
Density, g/ml	: 1.065
PH concentrate	: 9.5
pH of 5% dilution	: 9.1
Solution appearance	: Fluorescent Green Transparent fluid
Corrosion test IP 287	: 0 at 1:40
Phenols, Phosphate	: None
Nitrites, Phenols	: None
Heavy Metals, Sulfur	: None

Contaminating lubricants and hydraulic oils are easily removed by skimming.

1. Skim the floating oil
2. Neutralize to pH 7.0 by adding muriatic, hydrochloric or citric acid.
3. Add a small amount of acid at a time, and check your progress by using pH indicator paper.
4. When you reach pH 7.0, check with requirements of your local sanitary district for the disposal of watery waste effluent.

The above details is typical and does not constitute a contract in terms of properties