



# FS Kool Kut 378 LF

## A Heavy Duty/Severe Duty, High Performance, Micro-Emulsion

**FS Kool Kut 378LF** is a low foaming product formulated to replace soluble oils in more difficult metalworking applications. **FS Kool Kut 378LF** contains a proprietary blend of extreme pressure additives that provide excellent lubricity, form clean and stable emulsions, and keep the machine and tool surfaces residue free. The tight emulsions these additives create also aid the coolant in rejecting tramp oils and other sump-side contaminants common in many small and large operations. Additionally, **FS Kool Kut 378LF** imparts exceptional rust inhibiting qualities and is very Bio-Stable.

**FS Kool Kut 378LF** is strongly recommended for anyone wishing to increase production, increase tool life, and reduce the waste associated with coolant carry-off and rancidity.

### PRODUCT APPLICATIONS

**FS Kool Kut 378LF** is an extremely versatile product and at varied concentrations achieves superior results in a great variety of cutting, drilling, tapping, reaming, broaching, and grinding operations. The following is a recommended starting point of use (best results are achieved when the refractive index is kept above 4.5)

### TYPICAL PHYSICAL PROPERTIES

Fluid Type	Micro Emulsion
Appearance of Emulsion	Clear Blue
Specific Gravity @ 25C	1.00
pH 5% in Deionized Water	9.4
Flash Point C.O.C.	N/A
Weight per Gallon	8.6 lbs.
Freeze Thaw Cycle	Stable, Do Not Freeze
Rust Protection	Excellent
Metal Staining	N/A
Foam	Very Low Foaming
Water Dilutions:	Stable emulsions in hard, RO, or DI water
Bio-Stability:	Excellent

### RECOMMENDED REFRACTIVE READINGS:

Grinding:	Ref. = 4.5-6.0
Drilling/ Tapping	Ref. = 4.5-10.0
Machining:	Ref. = 4.5-10.0

**STORAGE/ MIXING:** Coolant concentrates should be stored at room temperatures (between 55-90 deg. F). Should concentrates be exposed to temperatures out of this range, the coolant concentrate needs to be mixed well prior to use. Product may become unstable/split, if exposed to extreme temperatures. Always add coolant to water while mixing, or run concentrates through a proportioning unit.

**HEALTH AND SAFETY:** Refer to Safety Data Sheet for more information.

**Warranty:** Because conditions of use are beyond our control no representation or warranty is made in connection with the use of this product. Technical information and recommendations are believed to be accurate but are not guaranteed.

July, 2015

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