



## PRODUCT DATA SHEET

# KOOL ALL - ULTRA®

### PRODUCT DESCRIPTION

KOOL ALL – ULTRA® IS A CLEAR, DARK BLUE SEMI-SYNTHETIC CUTTING AND GRINDING FLUID. KOOL ALL – ULTRA® IS DESIGNED PRIMARILY FOR LIGHT TO MEDIUM MACHINING OF FERROUS AND NON-FERROUS METALS. KOOL ALL – ULTRA® IS FORMULATED TO CONTAIN NO CHLORINE, SULFUR, OR PHOSPHOROUS ADDITIVES. IT IS ENVIRONMENTALLY FRIENDLY AND WORKER SAFE, EXHIBITS GOOD DETERGENCY, AND REJECTS TRAMP OIL. IT OFFERS LONG SUMP LIFE AND IS EASILY MAINTAINED.

### ATTRIBUTES

- EXCELLENT CORROSION PROTECTION
- EXCELLENT TOOL LIFE
- EXCELLENT TRAMP OIL REJECTION
- GOOD DETERGENCY AND HIGH WORKPIECE VISIBILITY
- LONG FLUID LIFE

### GENERAL APPLICATIONS

KOOL ALL – ULTRA® IS DESIGNED FOR LIGHT TO MEDIUM MACHINING OF FERROUS AND NON-FERROUS METALS. IT IS TYPICALLY USED IN SAWING, DRILLING, TURNING, BORING, MILLING, AND GRINDING APPLICATIONS.

### APPLICATION INFORMATION

NOTE: THIS PRODUCT IS 2 X'S CONCENTRATED.

OPERATION	DILUTION	REFRACTOMETER READING	pH
SAWING	20:1	4.5	9.4
GENERAL MACHINING	40:1	2.25	9.2
GRINDING	50:1	1.8	9.1

### DIRECTIONS

INITIAL CHARGE:

1. ADD DESIRED AMOUNT OF WATER TO SUMP.
2. ADD DESIRED AMOUNT OF UNDILUTED POWER CUT-HE TO THE WATER IN THE SUMP.
3. USE MODERATE AGITATION TO MIX THOROUGHLY BY STIRRING.
4. MEASURE REFRACTOMETER READINGS AND ADJUST AS NECESSARY.

### MAKE-UP (IN ORDER TO COMPENSATE FOR WATER EVAPORATION)

WHEN REFILLING YOUR SUMP YOU MUST TAKE INTO CONSIDERATION YOUR COOLANTS EVAPORATION RATE. SINCE THE WATER PORTION EVAPORATES DURING THE MACHINING PROCESS THE CONCENTRATION OF THE REMAINING SUMP VOLUME IS HIGHER THAN WHAT YOU STARTED WITH. AT THIS POINT YOU WILL NEED TO REFILL THE SUMP WITH A LOWER CONCENTRATED MIXTURE.

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