

# KOOLRite™

Long Life Coolant **2290MAX**

## Unique Microemulsion Coolant for Heavy Duty/Severe Machining

KOOLRite 2290MAX is a new generation of oil-based cutting fluid that utilizes JTM's unique **BioArmor Technology** to give you a coolant with outstanding control of bacteria without the use of bactericides. With BioArmor protection KOOLRite 2290MAX will stop sump odors, give you exceptionally long sump life and a clean, comfortable, safe work environment for machine operators.

KOOLRite 2290MAX is designed for heavy duty/severe machining operations with excellent performance on tough aerospace alloys where high finish is important. Excellent on high removal machining where speeds and feeds are pushed to the limit. Run at lower concentrations on tough jobs.



Unlike competitive oil based coolants KOOLRite 2290MAX will reject tramp, allowing clean coolant to be delivered to the chip/tool interface keeping your machine tool clean with a minimum of residual film while providing excellent corrosion control.

## Unique BioArmor™ Technology



**BioArmor Technology** means built-in resistance to bacterial growth without the use of bactericides. Only KOOLRite has it!

**KOOLRite**  
after 13 months

*KOOLRite Formulation Does Not Support Bacterial Growth*

**THEIRS**  
after 4 months

*Competitive Soluble Oil Teems with Bacteria*

## KOOLRite 2290MAX ADVANTAGES

### Praised in the Shop

No sump stench

Run at lower concentrations on tough jobs

Lowest possible coolant consumption

Low foam on high pressure systems

Multi metal capability simplifies coolant inventory

### Greatest Operator Comfort; Welcome at Home

Does not contain phenols, nitrites, chlorine, bactericides or DCHA

A perfect coolant for central system. Will eliminate odors and the need for additives, and will lower coolant consumption 15% to 25%.

## THE KOOLRite CHALLENGE:

KOOLRite 2290MAX will provide twice the sump life than the soluble oil you presently use or your purchase is **FREE!**



## Recommended Starting Dilutions

Operations	Iron & Carbon Steel	High Alloy & Stainless Steels	Tool Steels	Aluminum	Copper Alloys
Grinding	4% to 5%	4% to 6%	5% to 6%	5% to 7%	4% to 5%
Milling, Drilling, Turning, Cut-off, Sawing, Screw Machining	5% to 7%	7% to 8%	6% to 8%	5% to 7%	5% to 7%
Tapping, Reaming, Broaching and Form Milling	5% to 7%	7% to 10%	7% to 10%	7% to 10%	5% to 7%

## Directions for Use

The sump life of this coolant, as with any other coolant, will be greatly enhanced if charged to a clean system. You can utilize JTM's Sump Cleaner to disinfect your sump. KOOLRite 2290MAX can be metered through automatic dispensing systems available from JTM. Contact your representative regarding cleaning procedures and dispensers. **Always add the KOOLRite 2290MAX concentrate to the water and not the water to the concentrate.** Proper maintenance in removing extraneous oils is beneficial for extended coolant life. The concentration can be monitored by refractive index.

Refractive Index .....1.3 (Refractive reading x 1.3 = % of concentration of dilution)

## Recommended Metals

Aluminum Alloys	Cast Iron
Nodular Iron	Carbon Steel
Tool Steel	High Alloy Steel
Stainless Steel	Titanium
High Ni Steel	Copper Alloys

## Product Data

### Appearance:

Concentrate            Opaque Amber  
 @10 % Dilution      Milky

**pH (concentrate):**    9.5

**pH (10% dilution):** 9.1

**Density (lbs/gal):**    8.45



Quality Industrial Lubricants  
 for Over 100 Years.

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Material Safety Data Sheets are available for all products. All reasonable care has been taken to ensure that the above information is accurate as of the date of printing.

**JTM Products, Inc. offers a complete line of Chemicals and Lubricants for Industry. Call us at 800-229-6744**