



CITCOOL[®]

High Performance Cutting Fluids

Citgo Petroleum Corporation



CITCOOL® 22 and 33 High Performance Metalworking Fluids

CITGO'S CITCOOL® High Performance Cutting Fluids are synthetic concentrates that are redefining the standard of modern metalworking technology. New solutions to old problems are often hard to find. Many products that perform well in the lab can be next to impossible to use in real world applications. That's why the power of CITCOOL® fluids is not only in their superior performance, but also in their ease of use.

Advanced Technology That is Simple to Use

With their distinctive colors, CITCOOL® 22 and 33 combine advanced technology and ease of use to provide performance that is unequalled. Because they are true water soluble solutions, they solve many of the problems that face today's high performance machining operations, providing substantial improvement over hydrocarbon based cutting fluids in these and other areas:

- Easy to mix in hard or soft water
- Transparent for better viewing of the workpiece
- Wash off parts in cool water
- Environmentally acceptable & biodegradable for ease of disposal
- Built-in fungicide to minimize odor and rancidity during initial use (additions may be required depending on conditions)
- Improved safety...contain no phenols, nitrites, PCB's or heavy metals

Performance Where It Counts

When the pressure is on, many hydrocarbon-based cutting fluids can break down, contributing to chip build-up, excessive tool face wear, and ultimately...inferior product integrity.

CITCOOL® Fluids provide something that no other hydrocarbon-based cutting fluid can...performance that actually **increases** when the pressure is on.

Our chemists call it **inverse solubility**. Others call it a **technological breakthrough**. Call it what you may...CITCOOL® Fluids offer both the performance and ease of use that make them an obvious choice for today's quality conscious metalworking operation.

When the pressure at the interface of the workpiece and the cutting tool approaches 50,000 PSI, you can rest assured that CITCOOL® Fluids will continue to offer superior performance:

- Improved protection against chip buildup and tool face wear
- Reject tramp oil readily
- Provide excellent rust and corrosion protection
- Provide unequalled extreme pressure properties
- Resist sludge buildup
- Increased tool life due to superior cooling characteristics
- Non foaming and non misting

CITCOOL® Fluids...Superior Performance Any Way You Cut It

Milling, drilling, tapping...No matter what type of metalworking operations you perform, CITCOOL® Fluids offer clear advantages over hydrocarbon-based cutting fluids. Economical and easy to use, CITCOOL® Fluids step forward to keep up with the stringent demands of today's metalworking industry.

For more information on CITCOOL® 22 or 33, contact your local CITGO distributor or CITGO Petroleum Corporation, (918) 495-5857.

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