



# Cola<sup>®</sup>Lube 3430

## Polymerized Polyol Ester Based Boundary Lubricity Additive

**DESCRIPTION** Complex Polyester Lubricant Additive

**LISTINGS** Canada (DSL); US (TSCA); Australia (AICS); Korea (KECI); China (IECSC); Philippines (PICCS); New Zealand (NZIOC); Taiwan (TCSI)

**Cola<sup>®</sup>Lube 3430** is a complex polyester based on the vegetable-sourced fatty acids and polycarboxylic acids and polyhydroxy alcohols. As a polar polymer, Cola<sup>®</sup>Lube 3430 carries residual acidity which needs to be neutralized for use. Cola<sup>®</sup>Lube 3430 is hydrolytically stable under alkaline conditions (up to pH 9.5) in the water-miscible metalworking fluids. The multiple functional groups of the polymer enable its high affinity to multiple metal surfaces.

Cola<sup>®</sup>Lube 3430 is a boundary lubricant. It performs well in water-based semi-synthetics and soluble oils and has good lubricity and anti-wear properties.

Cola<sup>®</sup>Lube 3430 is easy to emulsify. Due to its polymeric nature, Cola<sup>®</sup>Lube 3430 can help stabilize the emulsion by developing a protective colloid. Cola<sup>®</sup>Lube 3430 is non-staining to ferrous and non-ferrous metals and provides effective corrosion protection for ferrous metal surfaces.

Cola<sup>®</sup>Lube 3430 has been widely used in water-dilutable cutting and forming fluids as well as rolling emulsions.

Cola<sup>®</sup>Lube 3430 is based on the bio-renewable fatty acids and has a much-improved environmental profile. It is readily biodegradable and casts minimal to no negative impact to the environment.

### SPECIFICATIONS

Appearance, 25°C	Clear Amber Liquid
Acid Value, mg KOH/g	45.0 – 52.0
Viscosity cP, 40°C	700 – 1100
Viscosity cSt, 40°C	745 – 1170

### KEY ATTRIBUTES

- Polymerized polyol esters
- Good lubricity and anti-wear properties
- Easy to emulsify
- Helps stabilize emulsions
- Corrosion protection for ferrous and non-ferrous materials, especially for the ferrous surface
- Free of GHS hazard labeling
- Based on bio-renewable fatty acids
- Readily biodegradable
- Desired environmental profile
- Broad global registration status

### APPLICATIONS

- Cutting fluids
  - Grinding
  - Threading
  - Tapping
- Forming fluids
  - Stamping
- Rolling Emulsions

### STORAGE AND HANDLING

Cola<sup>®</sup>Lube 3430 is shipped in 55 gal. poly drums, net weight 400 lbs/181.4 kg or totes 2000 lbs/907.1 kg. Cola<sup>®</sup>Lube 3430 should be stored in closed containers. Shelf life is 24 months from date of manufacture. Safety Data Sheet and more information is available at [www.colonialchem.com](http://www.colonialchem.com).

## Colonial Chemical, Inc.

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*Innovative Specialty Surfactants*

[www.colonialchem.com](http://www.colonialchem.com)