



# Cola<sup>®</sup>Lube 3404

## Metalworking Lubrication Additive

<b>CHEMICAL NAME</b>	Phosphate Ester
<b>LISTINGS</b>	US (TSCA); Canada (DSL); Australia (AICS); New Zealand (NZIoC); Philippines (PICCS); Korea (ECL); China (IECSC)

**Cola<sup>®</sup>Lube 3404** is an aliphatic phosphate ester that provides excellent corrosion inhibition, effective EP and potent wetting / surface tension reduction properties in metalworking fluids. In its un-neutralized form, it is soluble in naphthenic and paraffinic oil. By neutralizing with alkanolamines, Cola<sup>®</sup>Lube 3404 is readily soluble in water.

### SPECIFICATIONS

Appearance @ 25°C	Yellow Liquid
Clarity	Clear
Color, Gardner '98	2 Max.
Acid Value	280.0 – 310.0
Moisture, %	1.0 Max.

### PERFORMANCE TESTING RESULTS

<b>Cast Iron Chip Test</b> <i>1% active solution in 20,000 hardness water</i>	Pass (test results below)
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*Test performed using single VWR filter paper, 415 (28320-020)*

### PERFORMANCE TESTING RESULTS

#### Shake Foam Test

*(1 g Test Material into 50 mL DI water)*

Immediate	135 mm
1 min.	65 mm
3 min.	45 mm
5 min.	25 mm
10 min.	15 mm



Immediate    1 Minute    3 Minutes    5 Minutes    10 Minutes

### STORAGE AND HANDLING

Cola<sup>®</sup>Lube 3404 should be stored in closed containers. Shelf life is 12 months from date of manufacture. Cola<sup>®</sup>Lube 3404 is shipped in poly 55-gal drums, net weight 450 lbs (204.1 kg) and in bulk. Safety Data Sheet is available at [www.colonialchem.com](http://www.colonialchem.com).

## Colonial Chemical

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*Innovative Specialty Surfactants*