



Cola[®]Lube 3404

Metalworking Lubrication Additive

CHEMICAL NAME Phosphate Ester
LISTINGS US (TSCA); EU (REACH Pre-Registered); Canada (DSL); Australia (AICS);
 New Zealand (NZIoC); Philippines (PICCS); Korea (ECL); China (IECSC)

Cola[®]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[®]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

Cast Iron Chip Test 1% active solution in 100 ppm hardness water	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[®]Lube 3404 should be stored in closed containers. Shelf life is 12 months from date of manufacture. Cola[®]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.

Colonial Chemical

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Innovative Specialty Surfactants