



Cola®Cor 500

Metalworking Corrosion Inhibitor

CHEMICAL NAME Mixed Amine Carboxylate with improved hard water tolerance
LISTINGS US (TSCA): Canada (DSL): New Zealand (NZIoC): China (IECSC): Korea (ECL)

Cola®Cor 500 is a water soluble, synthetic corrosion inhibitor. Cola®Cor 500 is a highly effective, low cost preventative for cast iron, steel alloys. Cola®Cor 500 provides corrosion protection on ferrous surfaces in solution where the pH is approximately 8.0 or higher. Cola®Cor 500 is non-foaming and has good stability in hard water.

Cola®Cor 500 is useful where temporary protection against flash rusting is needed. When water is allowed to evaporate, a thin liquid film remains that provides rust protection to ferrous surfaces, even under high humidity conditions. The Cola®Cor 500 can easily be removed by rinsing with water. It also burns off cleanly in annealing or other high temperature processing operations.

Cola®Cor 500 is composed of a mixture of organic acid salts, but is not based on PTBBA, nitrites or borates. It is also diethanolamine free.

PERFORMANCE ATTRIBUTES

- Hard water tolerance
- Protects ferrous and non-ferrous metals
- Lubricating, wetting and spreading properties
- Specialized for alkaline

PERFORMANCE TESTING	RESULTS
Cast Iron Chip Test <i>1% active solution in tap water (South Pittsburg, TN – 80 ppm)</i>	Pass (test results below)



Test performed using single VWR filter paper, 415 (28320-020)

APPLICATIONS

Cola®Cor 500 can be used in most water-based, alkaline metal working fluid formations. It is useful in water/glycol or other water based hydraulic fluids, hard surface cleaners and forming and drawing compounds. Cola®Cor 500 is compatible with most commonly used materials for compounding these types of products, including glycols and polyalkylene glycols, alcohols, surfactants, alkaline builders, etc. If using acidic additives, the pH must be adjusted to 7.0 or above to maintain stability and to 8.0 or above to obtain maximum anticorrosion efficiency. Application level for end use is 0.3-0.5% depending on the end use application and pH of the fluid.

TYPICAL PROPERTIES

Appearance	Clear Liquid
pH (10% aqueous)	8.0 – 8.4

STORAGE AND HANDLING

Cola®Cor 500 is shipped in 55 gal. drums, net weight 480 lbs. (218 kgs.) or 275 gal. totes. Cola®Cor 500 should be stored in closed containers. Shelf life is 12 months from date of manufacture. A Safety Data Sheet is available at www.colonialchem.com.

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