



## **K-SYN™ CI-100** **Water Soluble Corrosion Inhibitor**

### **GENERAL DESCRIPTION**

K-Syn™ CI-100 is a high performance, water soluble corrosion inhibitor formulated to provide protection to cast iron and steel alloys. K-Syn™ CI-100 is designed for use in synthetic and low oil semi-synthetic metalworking fluids, water-based hydraulic fluids, and industrial cleaners. This amine carboxylate is inherently low foaming and has exceptional hard water stability. K-Syn™ CI-100 will deposit a thin oily-type film, upon the evaporation of water, which will also provide some short-term storage protection. K-Syn™ CI-100 contains no nitrates/nitrites, boron or secondary amines.

### **TYPICAL PROPERTIES (NOT SPECIFICATIONS)**

		<b>CI-100</b>
Appearance @ 25°C	Visual	Clear Amber Liquid
Specific Gravity @ 15.6°C	ASTM D1298	1.16
pH @ 1% in DI water	ASTM E70	8.6
Total Acid Number, mgKOH/g	ASTM D974	37

### **PERFORMANCE PROPERTIES (NOT SPECIFICATIONS)**

		<b>CI-100</b>
Cast Iron Chip Protection, 1.0% in DI Water	ASTM D4627	No Rust
Hard Water Stability, 10% in 3000 ppm Water	Visual	Clear

### **APPLICATIONS**

Treat rates for K-Syn™ CI-100 range from 10% to 30% in a synthetic fluid concentrate depending on the particular machining operation, desired pH of the finished, and the dilution rates of the finished concentrate in water. For additional short-term storage protection, upon completion of the machining operation, K-Syn™ CI-100 concentrations could range from 1.0% to 3.0% depending on the desired length of storage and the environment of the stored parts.

### **AVAILABILITY**

K-Syn™ CI-100 is available in Bulk Shipments, Totes, and 55-Gallon Drums.

10-28-2019