



**INTRODUCING A NEW
STANDARD FOR PERFORMANCE**

**CORRGUARD™ SELECT
multifunctional additives**

High-efficiency pH buffering and neutralization. Enhanced fluid longevity and formulation stability. Excellent multi-metal compatibility and foam control. CORRGUARD™ SELECT is a next generation multifunctional additive that delivers outstanding performance with an excellent health and safety profile – setting a new benchmark in metalworking fluids applications.

**A new-to-world multifunctional additive
for metalworking fluids**

CORRGUARD SELECT is a new-to-world, readily biodegradable multifunctional additive developed over a decade of rigorous research and product testing to provide superior performance with an excellent safety profile.

CORRGUARD SELECT provides:

- Exceptional performance as a high-efficiency neutralizer to develop pH buffering and alkalinity
- Excellent multi-metal compatibility with ferrous metals and aluminum alloys
- Reduced cobalt leaching than most competitive amines
- Enhanced surfactancy to reduce foam and surfactant usage

CORRGUARD SELECT can be used in a wide range of metalworking and lubricant applications, including:

- Metal cutting and grinding fluids
- Metal forming fluids
- Metal cleaners
- Industrial lubricants such as synthetic lubricants and fire-resistant hydraulic fluids

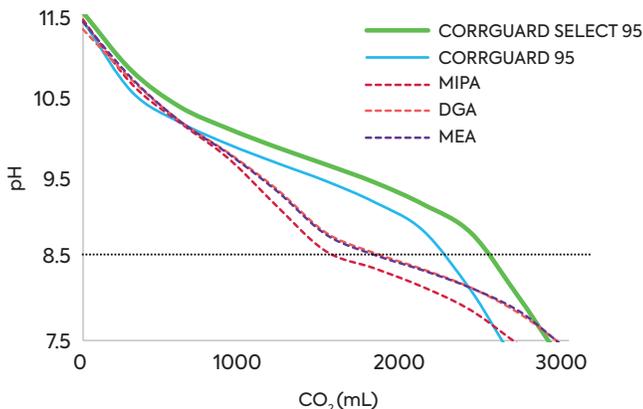
**Best-in-class multifunctional
performance**

Fig. 1: Performance comparison of semi-synthetic metalworking fluids formulated with CORRGUARD SELECT 95, CORRGUARD™ 95 (AMP) and other amino alcohols.



High-efficiency pH buffering and neutralization

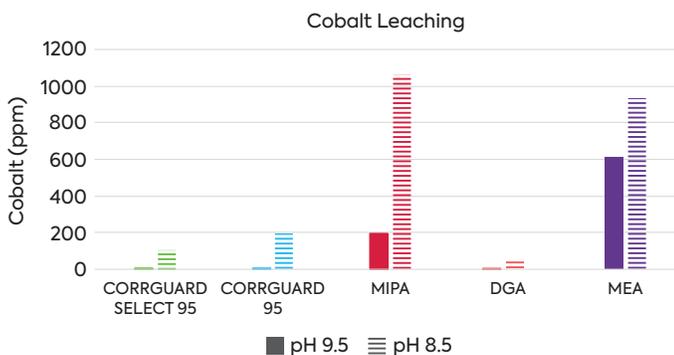
Fig. 2: pH buffering demand curve of 0.1M amino alcohols in deionized water titrated with 30 mL/min carbon dioxide flow.



CORRGUARD SELECT shows improved in-use pH buffering capacity compared to CORRGUARD 95 and other amino alcohols. This functionality enables formulators to effectively improve the stability of fluid formulations while optimizing the use of amines to reduce overall formulation costs.

Outstanding carbide tool compatibility

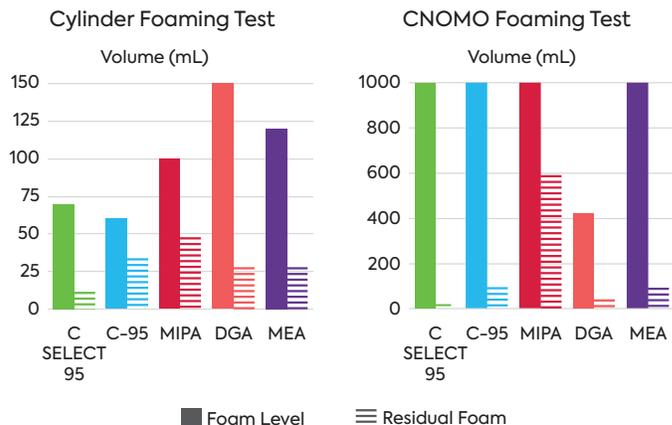
Fig. 4: Comparison of cobalt leaching analysis for CORRGUARD SELECT 95, CORRGUARD 95 and other amino alcohols.



CORRGUARD SELECT has outstanding cobalt leaching performance in the pH range of typical metalworking fluids. This helps protect the carbide tooling by extending tool life and reducing downtime.

Excellent foam control

Fig. 3: Cylinder and CNOMO foaming test of semi-synthetic metalworking fluids formulated with CORRGUARD SELECT 95 versus CORRGUARD 95 and other amino alcohols.



CORRGUARD SELECT provides enhanced foam control in the semi-synthetic fluids. The results show CORRGUARD SELECT has the lowest residual foam from both cylinder and CNOMO foaming test. This provides benefits of better cooling efficiency, enhanced machining precision, improved surface finish and helps improve emulsion stability and extend fluid life for overall cost savings.

Multiple commercial grades available

CORRGUARD SELECT is commercially available for sampling, evaluation and commercial sale in different concentrations, including CORRGUARD™ SELECT 95 (5% water), CORRGUARD™ SELECT 90 (10% water), CORRGUARD™ SELECT LSA 6000 (5% water, low secondary amine) and CORRGUARD™ SELECT LSA 7000 (10% water, low secondary amine).

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