

DeCORE BE & DeCORE BE-85

Water-soluble, non-foaming amine borate corrosion inhibitors effective on ferrous and non-ferrous metals in neutral to mildly alkaline systems, including aerosol formulations.

SPECIFICATIONS

	DeCORE BE	DeCORE BE-85
Appearance @ 25° C	Clear to hazy viscous liquid	Clear viscous liquid
Color (Gardner)	2 max.	4 max.
pH (1% in DW)	9.3 – 10.3	9.0 – 10.0
Alkali Value, mg KOH/gm	570 - 600	not a spec

SOLUBILITY (10% by weight): DeCORE BE and DeCORE BE-85 are soluble in water and glycols and insoluble or dispersible in alcohols, solvents and oils.

TYPICAL PROPERTIES

	DeCORE BE	DeCORE BE-85
% Activity	~100%	85% min
Density @ 25°C	~1.15 g/ml	~1.2 g/ml
Alkali Value, mg KOH/gm	see specifications	~415 – 435

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| <ul style="list-style-type: none"> • Corrosion inhibition in aqueous systems at pH 7 – 10 • Corrosion protection in aerosol cans • Non-foaming • Hard water stability • Biodegradable | <ul style="list-style-type: none"> • Non-phenolic • Approved for use as inerts in non-food pesticide formulations • Not recommended for use in acid systems |
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APPLICATIONS

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| <ul style="list-style-type: none"> • Synthetic coolants & cutting fluids for ferrous and non-ferrous metals • Cooling tower additive • Corrosion inhibitor for down-hole drilling • Corrosion inhibitors for radiator fluids | <ul style="list-style-type: none"> • Corrosion inhibitors for aerosol cans • Corrosion inhibitors for aqueous paints and coatings • Metal working fluids |
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Metal Panel Submersion Test

DeCORE BE and **DeCORE BE-85** were tested **at 0.5% by weight** in hard water and/or distilled water on cold rolled steel panels, in closed glass jars at room temperature for **six months**.

The bottom half of the metal panels were submerged in the test solutions. The top half of the panels were exposed to the vapor phase. Panels on the left did not contain inhibitor.

Steel Panels: SAE 1010 Cold Rolled Steel (mild carbon)

DeCORE BE

Distilled Water

Hard Water

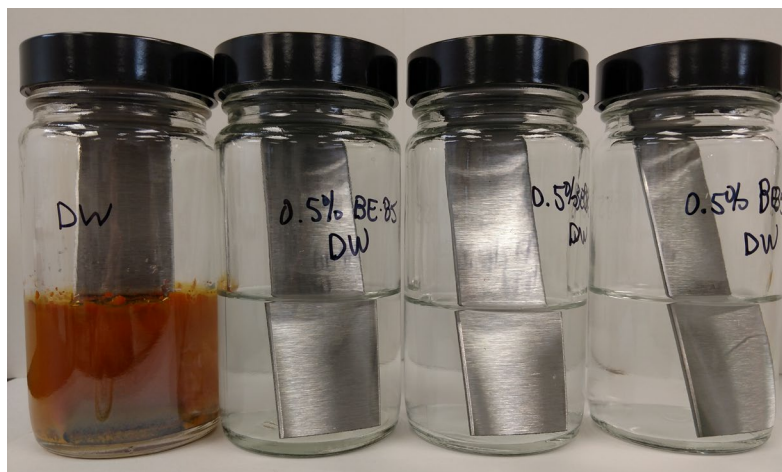
(100 ppm as CaCO₃ & 71 ppm as chloride)



DeCORE BE-85

Control (no inhibitor)
(1st jar)

Distilled Water
(2nd – 4th jars)



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Corrosion Testing in Aerosol Cans

Tin plate (lined and unlined) aerosol cans were partially filled with solutions of **DeCORE BE at 0.5% by weight** in hard water (100 ppm as CaCO₃ & 71 ppm as chloride). The cans were covered and stored at room temperature for **5 months** and observed for corrosion.

Grey Lined, Tin Plate Cans (AAC-7809 McKernan Packaging)

Control, No Inhibitor, Hard Water



0.5% DeCORE BE in Hard Water



Unlined, Tin Plate Cans (AAC-8001 McKernan Packaging)

Control, No Inhibitor, Hard Water



0.5% DeCORE BE in Hard Water



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