Ethanol Shield™

FOR ALL GASOLINE ENGINES

B3C FUEL & OIL SOLUTIONS

KEEPS FUEL FRESH

FUEL STABILIZER

EASY STARTS AFTER STORAGE

- New standard of antioxidants and anticorrosives
- Vapor corrosion inhibitor protects against corrosion above and below the fuel line for non-ferrous metals
- Proprietary top tier detergent reduces need for higher octane as machine ages
- Phase separation inhibitor
- All metal anticorrosive package (top Level ASTM & NACE ratings)
- Superior antioxidant package
- Bonds 2 Cycle Oil to gasoline / ethanol mix
- Combustion Cool Technology (CCT)
- Upper cylinder lubrication
- Rubber and plastic protection
- Dramatically slows fuel aging



Scan with phone camera for How-To-Use videos



Ethanol Shield Keeps Your Engines Running!

www.B3Cfuel.com

Ethanol Shield™
FUEL STABILIZER

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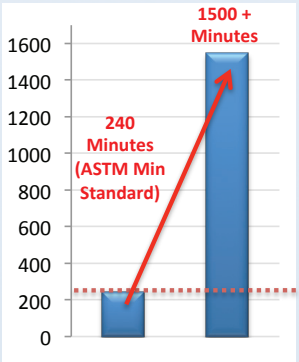
3rd PARTY LAB TEST RESULTS

Oxidation Stability (ASTM TEST D525)

Shows time (in minutes) for fuel to become unstable (e.g. break down, form gums)

RESULT: Ethanol Shield greatly increases stabilization, more than 6X than fuel without our additives.

E10 Fuel (10% Ethanol) vs Treated Fuel

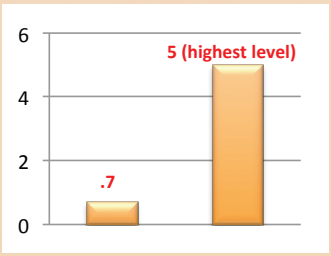


Corrosion Rating 1 - 5 (NACE Standards TEST for ferrous metals)

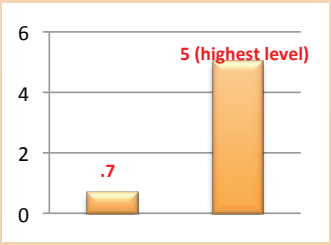
Shows the rating from 1 (poor) to 5 (excellent) of the ability to resist corrosion, per NACE standards.
NACE International is the world's leading professional organization for the corrosion control industry.

RESULT: Ethanol Shield has the highest rating for corrosion resistance, vastly improving fuel's corrosion resistance beyond those without our additives.

Ethanol Free Fuel vs Treated Fuel



E10 Fuel (10% Ethanol) vs Treated Fuel



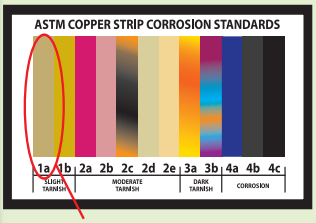
Corrosion Protection (ASTM TEST D130)

This test evaluates the degree to which a lubricant will **corrode** copper-containing materials (i.e. bronze, brass)

- Rates oils by immersing a prepared copper strip in the lubricant at 2 temperatures in typical range of operation.
- Ratings range from "1a" with slight discoloration, but barely noticeable *(similar to a freshly polished strip)*, to "4c"or severely corroded, blackened and pitted.

RESULT: Ethanol Shield received the highest rating of "1a".

ASTM Copper Strip Corrosion Standards



Ethanol Shield received a "1a" rating in the ASTM D130 test.

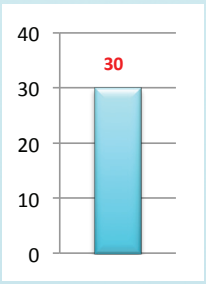
Cleaning (Nitrogen Content)

Shows the tested Nitrogen content in Parts Per Million (PPM) of our products.

Nitrogen content is an indicator of cleaning ability.

RESULT: Our additives (Top Tier Detergent) are shown to have a high Nitrogen content, known for its cleaning capability. Our targeted formulation and resulting Nitrogen content will improve cleaning capability even further.

Ethanol Shield PPM*



* PPM test results indicate 2.05 for Ethanol Shield. New formulations increase PPM to targeted results of 30.

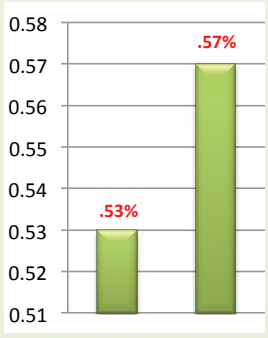
Water Tolerance (Modified ASTM TEST E1064)

Shows % of water fuel is able to tolerate or "hold" in suspension until Phase Separation occurs.

Phase Separation is the point the ethanol and water in the fuel combine and reach a saturation point. At saturation, this mixture "falls out" and settles on the bottom of a tank.

RESULT: Our additives are proven to increase the threshold at which Phase Separation occurs, thereby helping prevent Phase Separation and its negative effects.

E10 Fuel (10% Ethanol) vs Treated Fuel





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