

Technical Data Sheet

Eastman BioExtend™ 30HP Antioxidant Solution

Applications

- Biodiesel antioxidants

Key Attributes

- Amenable to conventional pumping systems
- Flashpoint 73°C
- Formulated for extreme cold—stable at -25°C
- Low odor
- Low-viscosity liquid solution—no premixing
- Metal chelator protects against metal contamination
- No-harm certified by AGQM for sales in Europe
- Outstanding performance at low concentrations

Product Description

A certifiably better alternative

For those planning to sell their biodiesel in European markets and need an antioxidant additive to protect fuel stability, Eastman BioExtend™ 30 HP high-performance additive is the ideal choice.

Through independent testing by AGQM, BioExtend 30 HP earned no-harm certification. This certification is based on predetermined criteria for compatibility with biodiesel and B10 blends, engine oil, engine nozzle fouling, and diesel additives.

Increasingly, international markets are requiring no-harm certification for biodiesel to be eligible for sale. Coupled with the solution's excellent performance, AGQM's accreditation makes BioExtend 30 HP the product of choice for improving the oxidative stability of biodiesel and blends up to B10.

In fact, Eastman BioExtend 30 HP outperformed BHT and 12 other commercial antioxidants in providing excellent initial and long-term oxidative stability in an undistilled 70% rapeseed/30% soy biodiesel.

As a result, use of BioExtend 30 HP not only opens up new markets but—as an additive that helps you produce a superior product—can also open doors to new market share, as well.

Typical Properties

Property	Typical Value, Units
General	
Physical Form	Liquid
Color	Amber to dark, brownish-red
Liquid Density @ 25°C	0.985 g/cm ³
Flash Point Setaflash Closed Cup	73 °C (163.4 °F)
Boiling Point	153 °C
Thermal Stability	> 373 °C
Solubility in Biodiesel	Excellent
Effectiveness in Biodiesel	Excellent
Composition	
Metal Chelator	1 %
MTBHQ	30 %

Processing Guidelines

- *BioExtend* 30 HP is a liquid, formulated as a ready to use antioxidant solution. It does not require dilution with biodiesel or other solvent system for use, but may be diluted into biodiesel for delivery.
- While storing, pumping and dosing, the temperature of the *BioExtend* 30 HP solution should be in the range of -25°C to max +40°C. It can be pumped and dosed to the biodiesel with commonly used equipment.
- *BioExtend* 30 HP has a flashpoint of 73°C (163.4°F). When mixed with biodiesel at no greater than a 1% concentration (10,000 ppm), the flashpoint of the resulting solution is greater than 175°C. If, while processing, the flashpoint of either *BioExtend* 30 HP or the resulting mixture will exceed its respective flashpoint, good engineering practices around fire prevention (ground and bonding, nitrogen blanketing, etc.) as outlined in the National Fire Protection Association Code 30 (Flammable & Combustible Liquids Code) should be followed.
- The temperature of the biodiesel, during and after addition of *BioExtend* 30 HP, should not exceed 100°C.
- *BioExtend* 30 HP will rapidly blend with any type of biodiesel. A typical stirring time in a mix tank is 10 minutes which should ensure a homogenous mixture. *BioExtend* 30 HP is also amenable to in-line mixing.

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