



Synthetic Fuel Additive for Industrial Heavy Fuel Oil, Bunker C, IFO 180/360

TPx HDNTek is a synthetic fuel additive blend formulated with oxygenating and detergent chemicals. It is a multi-use tool used to improve the way fuel burns, and reduce fuel consumption by 3%–8%.

TPx HDNTek:

- 100% safe synthetic formula
- Employs nanotechnology to control corrosion
- Integrates oxygen into fuel
- Gradually cleans fuel system
- Disperses suspended water in fuel
- Stabilizes fuel
- Reduces external oxygen requirements during characterization of boilers and furnaces
- Reduces toxic emissions and particulate matter
- Neutralizes the acidity of ashes

Availability:

Case of two 2.5 gallon bottles (5 gallons)

55 gallon drum

275 gallon tote

330 gallon tote

**100% Active
100% Biodegradable**

TPx HDNTek is the most advanced fuel additive in the world because it uses nanotechnology to control corrosion. TPx HDNTek is the only fuel additive in the world that contains a blend of nanoparticles tailored to deploy magnesium oxide in a highly efficient way. Extremely small and non-abrasive MgO particles stay suspended and effectively target metallic elements such as vanadium that can cause extremely corrosive scaling. In addition, the nano particles eliminate restricted flow.

TPx HDNTek protects against mechanical failures caused by fuel system deposits. Its synthetic formula is based on a combination of nanotechnology and our proprietary oxygenating and detergency chemical blends. When TPx HDNTek is first blended with fuel oil, it chemically cleans the fuel and fuel system components by dispersing water and solubilizing sludge. TPx HDNTek breaks the surface tension of the suspended water droplets by neutralizing the ionic charges that bind water molecules together. The molecules are then evenly dispersed throughout the fuel. TPx HDNTek prevents microbial growth which is often the cause of: fuel pump failure, rust, blockages, gum deposits and premature injector failure.

Lower fuel costs. TPx HDNTek integrates oxygen into the fuel to facilitate clean and complete combustion achieving a 3%–8% increase in efficiency.

Clean Burn. The combination of a clean engine utilizing oxygenated fuel greatly reduces the carbon footprint. TPx HD neutralizes toxic ash, reduces the risk of acid dew formation and reduces all exhaust gases including PM, CO, NOx, and SOx.

Average Emission Reduction:

PM (Hydrocarbons)	40%–90%
NOx	10%–20%
CO	20%–55%

Physical Properties:

Nano-sized magnesium oxide: 600 grams with an active surface area of 250 m² per gram. Equivalent to more than 60 kg of MgO (0.5 to 2.0 micron particles).

Appearance	Green
Density at 20 °C	0.91
Flash point	65 °C (149 °F)
Freezing point	-75 °C (-103 °F)
Viscosity	2.9 cP at 25 °C

Treatment:

Suggested dosage ratio of TPx HDNTek is:

Maximum: One gallon of additive for 1,000 gallons of fuel.

Minimum: One gallon of additive for 2,000 gallons of fuel.

(1:1000 to 1:2000)

Increased benefits are achieved with stronger concentrations—helpful in high altitude, underground, emission sensitive operations, or when treating very dirty fuel.

Safety:

Always read Material Safety Data Sheet before handling.

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SYNTHETIC FUEL ADDITIVES