

PRI-STX

STABILITY & COMPATIBILITY FOR 2020 FUELS



PRI-STX has been created specifically, to improve the two most critical issues of VLSFO: stability & compatibility. Many of these new fuels have been blended with HFO, MGO, light cutter stock, waste lubes, etc. Anything to bring the sulphur content down to the mandated and required 0.50 percent.

Fortunately, **PRI-STX** is the answer you have been looking for. Power Research Inc. has been supplying fuel additives to the shipping industry since 1983 and is the only additive manufacturer with positive stationary engine test results from MAN Diesel via Marpol Annex VI testing.



PRI-STX prevents severe stability & compatibility problems which can disable purifiers and result in costly vessel delays.

The unmatched capability of **PRI-STX** delivers four key benefits to vessel operators:

- Improves both physical & thermal stability, and improved fuel compatibility for 2020 fuels. **PRI** is #1 for improving poor quality fuels worldwide. Thus, saving vessel owners hundreds of thousands of dollars in charter hire loss and de-bunkering costs.
- Recovered lost fuel value via significant sludge reductions
- Improved combustion means reduced deposits on all engine components
- Vast improvement in purification system so less work for crew on board

OPTIMUM FUEL COMBUSTION

PRI-STX ensures vessel engines maintain a higher level of operational efficiency. Reduced post combustion deposits while maintaining engine component cleanliness, especially at reduced operating loads. Soot & visible emissions improvements.

FUEL QUALITY ISSUES & COMINGLING

PRI-STX prevents severe stability & compatibility problems which can disable purifiers and result in costly vessel delays. **PRI-STX** is designed specifically for the new 2020 blended fuels.

UNMATCHED VALUE

Dosing rate is at 1 liter per 20 mt. One 208-liter drum treats 4160 metric tons. No special dosing pump equipment is required. In terms of cost per mt treated and performance capability for the VLSFO, **PRI-STX** has no equal in the world today.

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Specifications

Color & Appearance	Dark Amber Liquid
Boiling Point	213 C.
Flash Point	94 C.
Specific Gravity	0.78 – 0.81
Water Solubility	Soluble
USA DOT ID Number	UN 1258
IMDG	Not classified as dangerous under IMDG regulation
IATA	Not classified as dangerous under IATA regulations

Dosage Rate:

PRI-STX is dosed at the 1:20,000 (one liter per 20 mt), regardless of fuel specifications under ISO 8217. It is recommended that for the first two months or two bunkerings of application, a dose rate of 1 liter per 15 mt is followed. When comingling different blends of VLSFO/HFO or problematic fuels, high TSP, etc. we recommend a dose rate of 1:10,000 (one liter per 10 mt). For severely out of spec fuel, fuel with very high TSP, or emergency situations on board, we recommend a dose rate of 1:5,000 (one liter per five mt).

Dosage Method:

Power Research Inc. suggests that **PRI-STX** is highly miscible with VLSFO & HFO, so it must be added directly to tanks prior to bunkering. Agitation from fuel flow into the tank typically provides a sufficient mixture.

Quality control:

PRI-STX is manufactured in accordance with strict, chemical manufacturing standards. Each blend is numbered, and a retain sample is FTIR tested against a laboratory standard to ensure optimal conformance.

Miscibility:

PRI-STX is a highly complex blend of organic chemistries that, once blended with heavy fuel, will not stratify or separate, even with fuel purification. In fact, purification systems remain cleaner and more efficient when processing **PRI-STX** treated fuels.