

ONLY FUEL ADDITIVE TO EVER TEST SUCCESSFULLY IN MAN DIESEL LABORATORY

PRI-27

THERMAL STABILITY TREATMENT FOR VLSFO/HFO FUELS

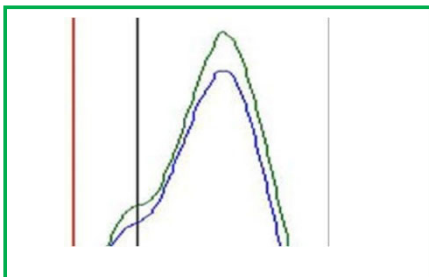
PRI-27 solves fuel problems. Fuel incompatibility, poor quality fuels, high TSP, high TSE, purifiers completely shut down, comingling, high asphaltenes, etc. **PRI-27** is the fuel solution for **VLSFO/HFO** fuels. Poor fuel stability and compatibility are the top issues affecting vessels worldwide with poor quality and off-spec **VLSFO**.

PRI-27 is an excellent choice for all scrubber fitted vessels. **PRI-27** has proven it can reduce PAH levels so scrubbers can operate legally and when needed. **PRI-27** also does an excellent job of maintaining back pressure. This is quite beneficial for any vessel fitted with a scrubber.

Only **PRI** chemicals (**PRI-27**, **PRI-STX**, **PRI-RS** & **PRI-D**) contain specific chemicals to improve thermal stability of **VLSFO/HFO**. Compatibility is also improved if having to comeingle two different stems of **VLSFO/HFO**.

PRI-27 is a verified technology for optimizing combustion of **VLSFO/HFO** in all marine diesel engine types – safely elevating peak combustion pressure (P_{MAX}) while reducing post combustion deposits.

PRI-27 INCREASES P_{MAX}, REDUCES SPECIFIC FUEL OIL CONSUMPTION



Verified in testing by Man Diesel under the strict Marpol Annex VI protocol, **PRI** technology boosts peak firing pressure (P_{MAX}) in a range of 4-to-7 bars. With every bar increase, specific fuel oil consumption (SFOC) is reduced 0.25 percent. Diesel engines operating on **PRI-27** fuels typically experience a 0.75-to-1.0 percent reduction in SFOC – providing a dramatic return on investment in fuel cost savings.

PRI-27 PREVENTS DAMAGING, POWER-ROBBING DEPOSITS

Marpol Annex VI emissions testing, and long-term shipboard application verifies that **PRI-27** significantly reduces post combustion deposits, maintaining engine component cleanliness, especially at reduced operating loads. Overhaul intervals are extended, and lube oil life is improved, resulting in enhanced propulsion system efficiency and reliability. *PM (visible smoke emissions) are also reduced approximately 30-40 percent.*

PRI-27 REDUCES SLUDGE, RECOVERS LOST FUEL VALUE

PRI-27 is formulated with a special combination of highly concentrated dispersants proven to reduce sludge precipitation. At the dosage rate of one liter per 12 MT, **PRI-27** recovers lost fuel value by reducing sludge as much as 35-40 percent – protecting fuel delivery systems from excessive wear, while permitting more efficient purifier operation.

ABOUT PRI

PRI advanced technology is the culmination of more than 37 years of research by professional petroleum chemists. The choice of hundreds of vessel owners worldwide, PRI products are safe, precisely formulated blends of highly specialized chemistries, containing only 100 percent active ingredients with no petroleum fillers or iron-based catalysts.

PROTECT YOUR INVESTMENT - PROTECT YOUR BALANCE SHEET.

CALL PRI TODAY.



Specifications	
Color & Appearance	Dark Amber Liquid
Odor	Hydrocarbon
Boiling Point	213 C.
Flash Point	68 C.
Specific Gravity	0.78 – 0.81
Water Solubility	Insoluble
USA DOT ID Number	UN 1268
Class/Division	Combustible Liquid
IMDG	Not classified as dangerous under IMDG regulation
IATA	Not classified as dangerous under IATA regulations

Dosage Rate:

PRI-27 is dosed at the rate of 1:12,000-1:20,000. The dosage rate was developed in consideration of the fact that heavy fuel oil characteristics can be widely variable, and that quality standards as proscribed under ISO 8217 do not completely account for all deficiencies associated with fuel performance.

Dosage Method:

Power Research Inc. suggests that **PRI-27** can be dosed at the main bunker manifold by means of a safe and easily operated air driven gear pump assembly. However, **PRI-27** is highly miscible with heavy fuel oil and may be added directly to fuel tanks 15-30 minutes prior to bunkering. Agitation from fuel flow into the fuel tank typically provides a sufficient mixture.

Quality Control:

PRI-27 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-27 is a highly complex blend of organic chemistries that mix compatibly with heavy fuel and will not stratify or separate during fuel purification. Purification systems remain cleaner and more efficient when processing **PRI-27** treated fuels.