

ExxonMobil Premium HDME 50™

Formulated to meet ECA 0.10 per cent sulphur limit and offer performance benefits



Energy lives here™

Product features

ExxonMobil pioneered a groundbreaking new category of marine fuels with the introduction of ExxonMobil Premium HDME 50™ marine fuel in 2014, which is specially formulated to meet the Emission Control Area (ECA) sulphur limit.

ExxonMobil Premium HDME 50 marine fuel has received a No Objection Letter from MAN Diesel & Turbo (MDT). It is currently used by a range of vessel operators, and meets and exceeds ISO 8217:2017 RMD 80. It has performance benefits associated with both marine gas oil (MGO) and heavy fuel oil (HFO):

- **Low sulphur content associated with MGO**
- **High flashpoint and viscosity, combined with low volatility properties, typically found in HFO**
- **Enhanced ignition characteristics compared to typical HFO**
- **Typically no catalytic fines**

Available in the Amsterdam, Rotterdam, Antwerp region. Deliveries are made by dedicated barges.

Proven benefits

ExxonMobil Premium HDME 50 fuel allows vessel operators to simultaneously:

- 1** Comply with the ECA 0.10 per cent sulphur limit
- 2** Minimise the risk of engine and boiler damage
- 3** Optimise combustion thanks to ignition characteristics
- 4** Switch over easily when entering and leaving ECA zones



Enhanced ignition characteristics

ExxonMobil Premium HDME 50 fuel offers enhanced ignition characteristics compared to typical heavy fuel oil, helping to optimise combustion and minimise wear on fuel system components. It also does not typically contain catalytic fines (aluminum or silicon within the marine fuel).

ExxonMobil Premium HDME 50™

Maintains safety and reliability onboard

Some operators using MGO install chillers in their systems to increase fuel viscosity. This costly process is avoided by using ExxonMobil Premium HDME 50™ marine fuel. The higher viscosity of ExxonMobil Premium HDME 50 fuel makes storing and handling the fuel onboard similar to HFO.

A benefit of having to heat the fuel is a reduction in the risk of thermal shock during fuel switchover when entering and leaving an ECA. This issue can result in pump seizures and engine shutdowns.



Typical properties

ExxonMobil Premium HDME 50	
Kinematic Viscosity cSt @ 50°C	30-45
Density @ 15°C kg/m ³	900-915
CCAI	795-810
Sulphur Content, mass %	<0.10
Flash Point, °C	>70
Hydrogen Sulphide, mg/kg	<1
Acid Number, mg KOH/g	<0.1
Total Sediment – existent, mass %	<0.01
Total Sediment – aged, mass %	0.01
Oxidation Stability, mass %	<0.01
Carbon Residue, mass %	<0.30
Pour Point, °C	6-12
Appearance	Brown/green, opaque
Water, vol %	0.05
Ash, mass %	<0.01
HFRR lubricity, microns	<320
Vanadium, mg/kg	<1
Sodium, mg/kg	<1
Al + Si, mg/kg	<5
Ca, mg/kg	<1
Zn, mg/kg	<1