Fuel Oil Blending

In-line, on-line Blending systems for Bunker tankers/barges
Huge savings from blending at point of custody transfer

Fuel Oil Blending for Bunker Tankers

The blending of two or more fluids at a predetermined ratio to produce a finished product is a common operation in the Oil industry.

Blending the correct viscosity or density of Fuel conforming to the exact specification of ISO8217 is important not only for the performance and maintenance of your engines but also for the cost of the product.

In-line blending is a controlled, continuous process, mixing two components during the delivery process offering some major benefits, when the requirement is to produce high quality blended products.

- Less storage space required (tank capacity)
- No unnecessary surplus taking up space and capital
- No product contamination/degradation from previous residual content
- A wide range of products can be blended “in-line”
- Just-in-time delivery
- High flexibility
- Less waste and loss
- Accurate delivery of quantity and quality

The blend conforms to ISO8217 and MARPOL 73/78, Annex VI, Regulation 14(1) and 18(1)
The metering system secures exact volumetric supply so a bunker barge can do more deliveries of multiple IFO qualities at precise volumetric quantity in less time than one or more traditional barges.

On-Board In-Line Blending

On a Bunker Tanker the In-Line blending operation is a controlled, continuous mixing of two components in a device that secures the correct composition conforming to ISO8217 and in accordance with the predefined viscosity or density settings.

This procedure can now take place during the actual delivery (custody transfer) to the customer vessel.

In-line blending reduces the blending time and is a quick and easy process with no extra need for the costly on-board tank storage that is necessary when doing batch blending.

Furthermore you avoid mixing the excess product volume that is often the result of batch blending operation.

With the improved flexibility of In-Line Blending you can supply a wide range of products to your customers independent of time and place.
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Saving money using in-line Bunker blending

Definitions

**Heavy Fuel Oil** - A fuel that is the heavier product in a blend. Generally a residual fuel with a high density and/or viscosity.

**Cutter Stock** - A distillate or low-viscosity hydrocarbon feedstock used in a blend. Generally to reduce the viscosity of the finished product.

**Homogeneous** - means having consistent qualities or properties throughout the blending process.

**Feedstock/blend components** - the products used in the blend process.


**Give-away** - The amount (percentage) of unnecessary Cutter stock/distillate added in the blend process to avoid claims from not meeting specifications. Cutter stock is typically more expensive and the extra cost will impact the price or profit of the end product.

**Blend monitor** - An automatic system that continuously checks and corrects the blend ratio to match the required density or viscosity. The result is a blend that is within ±0.5% of the preset target.

For more information:

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**SAVED TIME**

In stead of sending one Bunker Barge with IFO380 to one customer and another Bunker Barge with IFO180 to another customer, you can use the same barge to blend on-site for both. This saves time and resources and at the end of the day - a lot of money.

**SAVED COST**

Each call the Bunker Barge makes at the terminal adds to the cost. Whether it is Transit Cost, Harbour duties, Mooring Cost or Terminal charges - these costs can be reduced as a result of the flexibility of the On-Board Blending facility.

**CORRECT QUANTITY**

Depending on your choice of configuration you can provide your customers with the exact volumetric quantity of ISO8217 compliant Marine Fuel Oil at the exact viscosity ordered (+/- 1%) by using the Go4 Metering option.

**INCREASED PROFIT**

Flexibility, Cost- and time saving are important factors, but even more important is the possibility to increase your profit on sales.

Blending a high viscosity HFO with a low viscosity product (i.e. MGO or Cutter Stock) results in considerable savings in your end product cost compared to buying preblended products from a Terminal.

The exact savings will vary with the market, but in general there is a vast difference in the market price between an IFOxxx blended from 5-700 cSt HFO and MGO and preblended IFO180 or IFO380.