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ExxonMobil

# Marine Port Guide

**Singapore**

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## Singapore

# Marine Port Guide

### Quality, Reliability, Integrity

ExxonMobil has more than 50 years of experience in supplying high-quality fuels to the marine industry.

Our high-quality fuels help deliver consistent performance to vessel owners and operators worldwide. We maintain high standards of integrity and ethics across our operations to help provide peace of mind and reliable services to owners and vessel operators.[1]

### About the Port of Singapore

- World's largest bunkering port [2]
- Mandatory use of MPA-approved MFM system for all bunker deliveries
- Stringent bunkering standards (SS 648, SS 660)
- Mandated use of electronic bunker delivery notes (eBDNs)

[1] Marine Fuel Commitment to Quality | ExxonMobil Marine

[2] Singapore is World's Top Maritime Centre for 12th Consecutive Year | Maritime and Port Authority of Singapore

Singapore

# Marine Port Guide

## ExxonMobil in Singapore

- Two integrated refineries with a capacity of 592,000 barrels per day
- Dedicated barging capability for multiple products
- First to market with a port authority approved mass flow metering system (MFMS) [1]
- Drop-in Bio Marine Fuel Blends Offer
- Early adopter of electronic bunker delivery notes (eBDNs) [2]

[1] Mass flow metering system | ExxonMobil marine
[2] ExxonMobil introduces digital bunkering services in Singapore ahead of the deadline : Introducing Bunkering Services in Singapore – ExxonMobil

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## Refineries

## Singapore
# Product Offer

| Port | Conventional fuels | | Bio Marine Fuel blends |
|---|---|---|---|
| | VLSFO (0.5%S) | Distillate | BIO VLSFO (0.5%S) |
| Singapore | Fuel Oil – RMG 380 | DMA – 0.10%S | Bio – RMG 380 |

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ExxonMobil offers a range of fuel options for vessel operators that comply with the IMO's sulphur cap and that meet ISO 8217:2017 (except the FAME component, which meets EN 14214 for Bio Marine Fuel Blends).

Contact our international sales team for more information about our fuel offerings at the Port of Singapore.

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# Product Information – Conventional Fuels

| | VLSFO (RMG 380) | MGO (DMA) |
|---|---|---|
| **Sulphur Content** | Max 0.50% | Max 0.10% |
| **Viscosity** | max 380 cSt at 50°C | 2-6 cSt at 40°C |
| **Flash Point** | Min 60°C | Min 60°C |
| **Al + Si, mg/kg** | Max 60ppm | N/A |
| **Delivery Method** | Barge/Ex-wharf | Barge/Ex-wharf |
| **Info** | Can safeguard engines running on 0.50% sulphur fuels; range offers improved combustion while minimising waxing | Minimal requirement for fuel treatment; no heating requirement |
| **Website Link** | Fuel Oil (pdf) | DMA (pdf) |

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## Singapore

# Product Information – Bio Marine Fuel Blends

| | BIO-VLSFO (except FAME) |
|---|---|
| **Sulphur content** *** | Max 0.50% |
| **Viscosity** *** | max 380 cSt at 50°C |
| **Flash Point** *** | Min 60°C |
| **Bio Content** | Max 24vol% FAME |
| **FAME** | Meets EN14214 |
| **Handling** | Drop in fuel* |
| **Delivery Method** | Barge |
| **Info** | Reduced estimated lifecycle GHG emissions compared to conventional petroleum-based liquid fuels** |
| **Website** | Bio Marine Fuels |

*Consult with engine manufacturer. OEMs may limit bio blend percentages or specific bio components for certain engines.

**Benefit compared with conventional petroleum-based liquid marine fuels, calculated on an energy basis. Estimated well-to-wake $CO_2$ emissions reduction calculated using Energy Directive (2018/2001/EU Annex V) ("RED II"). Actual results may vary with each batch and will depend on factors such as the specific feedstock and production process.

*** Except FAME

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