

Marine distillate fuels ISO 8217:2017

Information on specifications and tests



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ExxonMobil offers a range of marine distillate fuels and heavy fuel oils. Our integrated supply chain enables the delivery of high-quality fuels in a safe and timely manner. Experienced technical support and sales teams can advise you on the most appropriate fuel for your fleet, as well as provide guidance for switching between different grades.

A summary of marine distillate fuels follows.

Test	Unit	Test Method			Limits	Grade						
		ASTM	IP	ISO		DMX	DMA	DFA	DMZ	DFZ	DMB	DFB
Viscosity at 40°C	mm ² /s (cSt)	D445	71	3104*	max. min.	5.500 1.400	6.000 2.000	6.000 2.000	6.000 3.000	6.000 3.000	11.00 2.000	11.00 2.000
Density at 15°C	kg/m ³	D1298	160	3675* or 12185	max.	-	890.0	890.0	890.0	890.0	900.0	900.0
Cetane index	-	4737	380	4264*	min.	45	40	40	40	40	35	35
Sulphur	mass %	D4294	336	8754*; 14596	max.	1.00	1.00	1.00	1.00	1.00	1.50	1.50
Flash point	°C	D93	34	2719*	min.	43	60	60	60	60	60	60
Hydrogen sulphide	mg/kg	-	570*	-	max.	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Acid number	mg KOH/g	D664*	-	-	max.	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Total sediment hot filtration	mass %	-	375	10307-1*	max.	-	-	-	-	-	0.10	0.10
Oxidation stability	g/m ³	-	388	12205*	max.	25	25	25	25	25	25 [†]	25 [†]
FAME	volume %	D7963*	579		max.	-	-	7.0	-	7.0	-	7.0
Carbon residue, micro	mass %	D4530	398	10370*	max.	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Cloud point	°C	-	219	3015	max.	-16	-	-	-	-	-	-
Pour point												
Winter quality	°C	D97	15	3016*	max.	-	-6	-6	-6	-6	0	0
Summer quality	°C	D97	15	3016*	max.	-	0	0	0	0	6	6
Appearance	-	-	-	-	-	Clear and bright					-	-
Water	volume %	D95	74	3733*	max.	-	-	-	-	-	0.30	0.30
Ash	mass %	D482	4	6245*	max.	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Lubricity [‡]	µm	-	-	12156-1*	max.	520	520	520	520	520	520 [†]	520 [†]

*Test method reference.

[†]If the sample is not clear and bright, the test cannot be undertaken and the limit shall not apply.

[‡]This requirement is applicable to fuels with a sulphur content below 0.05%.

Additional reporting requirements for CFPP and Cloud Point for Winter Grades of DMA, DFA, DMZ.

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ExxonMobil marine fuels specifications

Exxon Mobil Corporation and affiliated companies (ExxonMobil) supply marine fuels against the attached specifications, which apply to fuels manufactured by ExxonMobil and those purchased or exchanged or unless otherwise agreed. These specifications are regularly reviewed to encompass both equipment-builder and industry requirements, including standard-setting organisations such as ASTM and ISO.

Please note that these specifications are subject to change without notice. In addition, local conditions may require deviation from published specifications or may offer a higher quality, but without guarantee. Please contact your ExxonMobil marine fuels representative regarding current typical qualities at your nominated bunker port. Final product quality specifications are subject to order confirmation details.

This document is supplied for information only and is not part of any contract for the supply of marine fuels. Any warranties as to the quality of marine fuels supplied will be set out separately in a contract with the relevant ExxonMobil marine fuels entity.

Sampling and delivery

In delivery of our marine fuel oils and distillates, ExxonMobil employs continuous drip samplers as the preferred method for obtaining representative samples of a marine fuel oil delivery. Samples are drawn following the procedures set out in the ExxonMobil Sampling Policy. Purchasers may wish to use the services of an independent survey at delivery.

Quantity measurement is according to the terms of the most current version of "ExxonMobil marine fuels general conditions of contract." ExxonMobil uses certified calibrations of barges and tanks to determine quantities delivered.

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