



ISO 8217 2012 FUEL STANDARD FOR MARINE DISTILLATE FUELS

MARINE DISTILLATE FUELS

Limit	Parameter	DMX	DMA	DMZ	DMB
Max.	Kinematic Viscosity at 40°C (mm ² /s)	5.500	6.000	6.000	11.000
Min.	Kinematic Viscosity at 40°C (mm ² /s)	1.400	2.000	3.000	2.000
Max.	Density at 15°C (kg/m ³)	-	890.0	890.0	900.0
Min.	Calculated cetane index	45	40	40	35
Max.	Sulphur (% m/m)	1.00	1.50	1.50	2.00
Min.	Flash point (°C)	43	60	60	60
Max.	Hydrogen sulphide (mg/kg)	2.00	2.00	2.00	2.00
Max.	Acid number (mg KOH/g)	0.5	0.5	0.5	0.5
Max.	Total sediment by hot filtration (% m/m)	-	-	-	0.10
Max.	Oxidation stability (g/m ³)	25	25	25	25
Max.	Micro Carbon Residue at 10% Residue (% m/m)	0.30	0.30	0.30	-
Max.	Micro Carbon Residue (% m/m)	-	-	-	0.30
Max.	Cloud point (°C)	-16	-	-	-
Max.	Pour point in Summer (upper quality, °C)	-	0	0	6
Max.	Pour point in Winter (upper quality, °C)	-	-6	-6	0
Max.	Water (Volume %)	-	-	-	0.30
Max.	Ash (% m/m)	0.010	0.010	0.010	0.010
Max.	Lubricity, corrected wear scar diameter (wsd 1.4) at 60 °C (um)	520	520	520	520
Max.	Appearance	Clear and bright			-

The above is a service for informational purposes only. Dan-Bunkering assumes no responsibility for any errors or omissions.

Dan-Bunkering has been leading in the bunker business for more than 3 decades, arranging bunker supplies; fuels, lubricants, and other related products and services for vessels all over the world. The head office is situated in Middelfart with offices in Copenhagen, Shanghai, Cape Town, Singapore, Monaco, Houston, Beijing, Dubai, Stamford, and Sydney. More than 70 dedicated and service-minded fuel Suppliers are ready to guide new and existing clients. Dan-Bunkering is part of a professional and financially strong group with interests in ship-owning and shipping activities.



ISO 8217 2012 FUEL STANDARD FOR MARINE RESIDUAL FUELS

MARINE RESIDUAL FUELS

Limit	Parameter	RMA	RMB	RMD	RME	RMG				RMK			
		10	30	80	180	180	380	500	700	380	500	700	
Max.	Kinematic Viscosity at 50°C (mm ² /s)	10.00	30.00	80.00	180.0	180.0	380.0	500.0	700.0	380.0	500.0	700.0	
Max.	Density at 15°C (kg/m ³)	920.0	960.0	975.0	991.0	991.0				1010.0			
Max.	CCAI	850	860			870							
Max.	Sulphur (% m/m)	Statutory requirements											
Min.	Flash point (°C)	60.0											
Max.	Hydrogen sulphide (mg/kg)	2.00											
Max.	Acid Number (mgKOH/g)	2.5											
Max.	Total Sediment. aged (% m/m)	0.10											
Max.	Micro Carbon Residue (% m/m)	2.50	10.00	14.00	15.00	18.00				20.00			
Max.	Pour point (upper) in Summer (°C)	6			30								
Max.	Pour point (upper) in Winter (°C)	0			30								
Max.	Water (% V/V)	0.30			0.50								
Max.	Ash (% m/m)	0.040			0.070				0.100			0.150	
Max.	Vanadium (mg/kg)	50			150				350			450	
Max.	Sodium (mg/kg)	50			100		50		100			100	
Max.	Aluminium plus silicon (mg/kg)	25		40		50		60					
	Used lubricating oils (ULO): Calcium and Zinc; or Calcium and Phosphorus (mg/kg)	The fuel shall be free from ULO. and shall be considered to contain ULO when either one of the following conditions is met: Calcium > 30 and zinc > 15; or Calcium > 30 and phosphorus > 15											

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