



ISO 8217: 2012 Fuel Standard for Marine Distillate Fuels

Parameter	Unit	Limit	DMX	DMA	DMZ	DMB
Kinematic Viscosity at 40°C	mm ² /S	Max	5,500	6,000	6,000	11,000
		Min	1,400	2,000	3,000	2,000
Density at 15°C	kg/m ³	Max		890,0	890,0	900,0
Calculated cetane index		Min	45	40	40	35
Sulphur	Mass %	Max	1,00	1,50	1,50	2,00
Flash point	°C	Min	43	60	60	60
Hydrogen sulphide	mg/kg	Max	2,00	2,00	2,00	2,00
Acid number	mg KOH/g	Max	0,5	0,5	0,5	0,5
Total sediment by hot filtration	Mass %	Max				0,10
Oxidation stability	g/m ³	Max	25	25	25	25
Micro Carbon Residue at 10% Residue (% m/m)	Mass %	Max	0,30	0,30	0,30	
Micro Carbon Residue (% m/m)	Mass %	Max				0,30
Cloud point	°C	Max	-16			
Pour point in Summer (upper quality)	°C	Max		0	0	6
Pour point in Winter (upper quality)	°C	Max		-6	-6	0
Water	Volume %	Max				0,30
Ash	Mass %	Max	0,010	0,010	0,010	0,010
Lubricity, corrected wear scar diameter (wsd 1,4) at 60 °C	um	Max	520	520	520	520
Appearance			Clear and bright			

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Consider Unioil Supply your reliable, flexible and professional partner – with a constant focus on development, optimization and improvements for clients. We strive to have positive long-term business relationships. A close dialogue has the highest priority to us to fully meet expectations.

Please contact Unioil Supply for more information about ISO specifications at:

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ISO 8217: 2012 Fuel Standard for Marine Residual Fuels

Parameter	Unit	Limit	RMA	RMB	RMD	RME	RMG				RMK			
			10	30	80	180	180	380	500	700	380	500	700	
Kinematic Viscosity at 50°C	mm ² /S	Max	10,00	30,00	80,00	180,0	180,0	380,0	500,0	700,0	380,0	500,0	700,0	
Density at 15°C	kg/m ³	Max	920,0	960,0	975,0	991,0	991,0				1.010,0			
CCAI		Max	850	860			870							
Sulphur	Mass %	Max	Statutory requirements											
Flash point	°C	Min	60,0											
Hydrogen sulphide	mg/kg	Max	2,00											
Acid number	mg KOH/g	Max	2,5											
Total sediment aged	Mass %	Max	0,10											
Micro Carbon Residue (% m/m)	Mass %	Max	2,50	10,00	14,00	15,00	18,00				20,00			
Pour point in Summer (upper quality)	°C	Max	6			30								
Pour point in Winter (upper quality)	°C	Max	0			30								
Water	Volume %	Max	0,30			0,50								
Ash	Mass %	Max	0,040			0,070			0,100			0,150		
Vanadium	mg/kg	Max	50			150			350			450		
Sodium	mg/kg	Max	50			100			50			100		
Aluminium plus silicon	mg/kg	Max	25			40			50			60		
Used lubricating oils (ULO): - Calcium and Zinc or - Calcium and Phosphorus	mg/kg		The fuel shall be free from ULO. A fuel 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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