

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	11,00
		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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CONTACT US
Transpacific Bunker
De-Saint-Exupery Straße 10
Germany
Frankfurt am Main, 60549
operations@transpacificbunker.com

ISO 8217: 2012 FUEL STANDARD FOR MARINE RESIDUAL FUELS

PARAMETER	UNIT	L- MIT	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			100			
Aluminium plus silicon	mg/kg	Max	25	40		50	60						
Used lubricating oil (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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