

ISO8217:2017

MARINE DISTILLATE FUELS

Limit	Parameter	DMX	DMA	DFA	DMZ	DFZ	DMB	DFB
Max.	Viscosity at 40°C (mm²/s)	5.500	6.000		6.000		11.00	
Min.	Viscosity at 40°C (mm²/s)	1.400	2.000		3.000		2.000	
Max.	Micro Carbon Residue at 10% Residue (% m/m)	0.30	0.30		0.30		-	
Max.	Density at 15°C (kg/m3)	-	890.0		890.0		900.0	
Max.	Micro Carbon Residue (% m/m)	-	-		-		0.30	
Max.	Sulphur (% m/m)	1.00	1.00		1.00		1.50	
Max.	Water (% V/V)	-	-		-		0.30	
Max.	Total sediment by hot filtration (% m/m)	-	-		-		0.10	
Max.	Ash (% m/m)	0.010	0.010		0.010		0.010	
Min.	Flash point (°C)	43.0	60.0		60.0		60.0	
Max.	Pour point in Winter (°C)	-	-6		-6		0	
Max.	Pour point in Summer (°C)	-	0		0		6	
Max.	Cloud point in Winter (°C)	-16	Report		Report		-	
Max.	Cloud point in Summer (°C)	-16	-		-		-	
Max.	Cold filter plugging point in Winter (°C)	-	Report		Report		-	
Max.	Cold filter plugging point in Summer (°C)	-	-		-		-	
Min.	Calculated Cetane Index	45	40		40		35	
Max.	Acid Number (mgKOH/g)	0.5	0.5		0.5		0.5	
Max.	Oxidation stability (g/m³)	25	25		25		25	
Max.	Fatty acid methyl ester (FAME)	-	-	7.0	-	7.0	-	7.0
Max.	Lubricity, corrected wear scar diameter (wsd 1.4 at 60°C) (um)	520	520		520		520	
Max.	Hydrogen sulphide (mg/kg)	2.00	2.00		2.00		2.00	
	Appearance	Clear & Bright					-	

Limit	Parameter	RMA 10	RMB 30	RMD 80	RME 180	RMG				RMK		
						180	380	500	700	380	500	700
Max.	Viscosity at 50°C (mm²/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/m³)	920.0	960.0	975.0	991.0	991.0				1010.0		
Max.	Micro Carbon Residue (% m/m)	2.50	10.00	14.00	15.00	18.00				20.00		
Max.	Aluminium + Silicon (mg/kg)	25	40		50	60						
Max.	Sodium (mg/kg)	50	100		50	100						
Max.	Ash (% m/m)	0.040	0.070			0.100				0.150		
Max.	Vanadium (mg/kg)	50	150			350				450		
Max.	CCAI	850	860			870						
Max.	Water (% V/V)	0.30	0.50									
Max.	Pour point (upper) in Summer (°C)	6		30								
Max.	Pour point (upper) in Winter (°C)	0		30								
Min.	Flash point (°C)	60.0										
Max.	Sulphur (% m/m)	To comply with statutory requirements as defined by purchaser										
Max.	Total Sediment, aged (% m/m)	0.10										
Max.	Acid Number (mgKOH/g)	2.5										
	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.										
Max.	Hydrogen sulphide (mg/kg)	2.00										