

ISO 8217: 2010 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	0	6
Pour point in Winter (upper quality)	°C	Max	-6	-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			

The above is a service for informational purposes only. As such Unioil Supply A/S assumes no responsibility for any errors or omissions.



UNIOIL-SUPPLY.COM

Unioil Supply A/S is a part of Bunker Holding Group, which owns and operates trading and physical supply operations in 27 countries. The global group's strength combined with Unioil Supply's expertise make us the preferred business partner of a vast range of customers, who all rely on our excellent service. Our core business is based in Europe, Scandinavia and Nordic waters, however we are constantly looking for business opportunities everywhere.

Consider Unioil Supply as 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.

CONTACT INFORMATION

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

unioil-supply.com
sales@unioil-supply.com
(+45) 88 82 81 81

ISO 8217: 2010 FUEL STANDARD FOR MARINE RESIDUAL FUELS

PARAMETER	UNIT	LI-MIT	RMG										
			RMA 10	RMB 30	RMD 80	RME 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										

The above is a service for informational purposes only. As such Unioil Supply A/S assumes no responsibility for any errors or omissions.



UNIOIL-SUPPLY.COM

Unioil Supply A/S is a part of Bunker Holding Group, which owns and operates trading and physical supply operations in 27 countries. The global group's strength combined with Unioil Supply's expertise make us the preferred business partner of a vast range of customers, who all rely on our excellent service. Our core business is based in Europe, Scandinavia and Nordic waters, however we are constantly looking for business opportunities everywhere.

Consider Unioil Supply as 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.

CONTACT INFORMATION

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

unioil-supply.com
sales@unioil-supply.com
(+45) 88 82 81 81