

ISO 8217:1996(E) - Specifications of Marine Fuels

Marine Distillate Fuels

Characteristics	Limit	Category, ISO-F			
		DMX	DMA	DMB	DMC
Appearance		Visual		----	----
Density at 15° C/kg/m ³	max	(1)	890.0	900.0	920.0
Viscosity at 40° C mm ² /s (2)	min	1.40	1.50	----	----
	max	5.50	6.00	11.00	14.00
Flash Point, C	min	43.00	60.00	60.00	60.00
Pour Point (upper), C (3)					
Winter Quality	max	----	-6	0	0
Summer Quality	max	----	0	6	6
Cloud Point, C	max	-16 (4)	----	----	----
Sulfur, % (m/m)	max	1.0	1.5	2.0	2.0
Cetane Number	min	45	40	35	----
Carbon residue, (micro method 10% (v/v) distillation bottoms), % (m/m)	max	0.30	0.30	----	----
Carbon residue (micro method), % (m/m)	max	----	----	0.30	2.50
Ash, % (m/m)	max	0.01	0.01	0.01	0.05
Sediment, % (m/m)	max	----	----	0.07	----
Total existent sediment, % (m/m)	max	----	----	----	0.10
Water, % (V/V)	max	----	----	0.30	0.30
Vanadium, mg/kg	max	----	----	----	100.0
Aluminium plus silicon, mg/kg	max	----	----	----	25.0

(1) In some geographical areas there may be a maximum limit.

(2) 1mm²/s = 1CST

(3) Purchasers should ensure that this pour point is suitable for the equipment on board, especially if the vessel is operating in both Northern and Southern hemispheres.

(4) This fuel is suitable for use without heating at ambient temperatures down to -15oC.