

ISO 8217 1987 FUEL STANDARD

ISO 8217 1987 Fuel Standard for marine distillate fuels

REQUIREMENTS FOR MARINE DISTILLATE FUELS

NOTE – The values in this table are maximum or minimum values for each property. The actual values for any batch of fuel may vary within these limits.

Characteristic	Test method	Limit	Designation ISO-F-			
			DMX	DMA	DMB	DMC
Density at 15 °C, kg/m ³ ^a	ISO 3675	max.	^b	890,0	900,0	920,0
Kinematic viscosity at 40 °C cSt ^c	ISO 3104	min. max.	1,40 5,50	1,50 6,00	– 11,0	– 14,0
Flash point, °C	ISO 2719	min.	43	60	60	60
Pour point (upper), °C ^d Winter quality Summer quality	ISO 3016	max. max.	– –	–6 0	0 6	0 6
Cloud point, °C	ISO 3015	max.	–16 ^e	–	–	–
Carbon residue, Ramsbottom % (m/m) on 10 % residue	ISO 4262 (See 6.3)	max.	0,20	0,20	–	–
Carbon residue, Ramsbottom % (m/m)		max.	–	–	0,25	2,50
Ash, % (m/m)	ISO 6245	max.	0,01	0,01	0,01	0,05
Sediment by extraction, % (m/m)	ISO 3735	max.	–	–	0,07	–
Water, % (V/V)	ISO 3733	max.	–	–	0,30	0,30
Cetane number	ISO 5165	min.	45	40	35	–
Visual inspection	See 6.4	–	See 6.4		–	–
Sulfur, % (m/m)	See 6.5	max.	1,0	1,5	2,0	2,0
Vanadium, mg/kg	See 6.6	max.	–	–	–	100

a Density in kilograms per litre at 15 °C should be multiplied by 1 000 before comparison with these values.

b In some countries there will be a maximum limit.

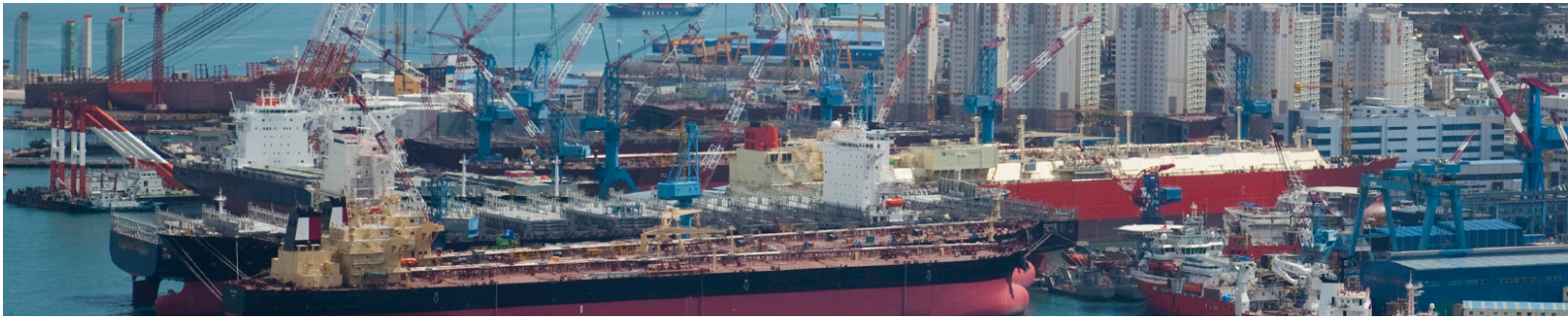
c 1 cSt = 1 mm²/s.

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

e This fuel is suitable for use at ambient temperatures down to –15 °C without heating the fuel.

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ISO 8217 1987 Fuel Standard for marine residual fuels

REQUIREMENTS FOR MARINE RESIDUAL FUELS

NOTE – The values in this table are maximum or minimum values for each property. The actual values for any batch of fuel may vary within these limits.

Characteristics	Test method	Limit	Designation ISO-F-														
			RMA 10	RMB 10	RMC 10	RMD 15	RME 25	RMF 25	RMG 35	RMH 35	RMK 35	RML 35	RMH 45	RMK 45	RML 45	RMH 55	RML 55
Density at 15 °C, kg/m ³ ^a (see 6.2)	ISO 3675	max.	975,0	991,0		991,0	991,0		991,0		–		991,0	–		991,0	–
Kinematic viscosity at 100 °C, cSt ^b	ISO 3104	max.	10,0			15,0	25,0		35,0				45,0		55,0		
Flash point, °C	ISO 2719	min.	60			60	60		60				60		60		
Pour point ^c (upper), °C Winter quality Summer quality	ISO 3016	max. max.	0 6	24 24		30 30	30 30		30 30				30 30		30 30		
Carbon residue, Conradson, % (m/m)	ISO 6615	max.	10		14	14	15	20	18	22	–		22	–		22	–
Ash, % (m/m)	ISO 6245	max.	0,10			0,10	0,10	0,15	0,15	0,20			0,20		0,20		
Water, % (V/V)	ISO 3733	max.	0,50			0,80	1,0		1,0				1,0		1,0		
Sulfur, % (m/m)	See 6.5	max.	3,5			4,0	5,0		5,0				5,0		5,0		
Vanadium, mg/kg	See 6.6	max.	150		300	350	200	500	300	600			600		600		

a Density in kilograms per litre at 15 °C should be multiplied by 1 000 before comparison with these values.

b 1 cSt = 1 mm²/s.

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

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