

International Standard ISO 8217:2005 (E)

Specifications /
requirements for
marine distillate fuels

[note: Red, bold print new specifications
of ISO 8217:2005. In the grey fields
canceled categories from 8217:1996].

	Test Method	Limit	DMX	DMA	DMB	DMC
Appearance			VISUAL/ CLEAR & BRIGHT		-	-
Density at 15°C. kg/m ³	ISO 3675 or ISO 12185	min.	1/-	890	900	920
Viscosity at 40°C. mm ² /s	ISO 3104	min.	1.4	1.5	-	-
		max.	5.5	6	11	14
Flash Point, C°	ISO 2719	min.	43	60	60	60
Pour Point (upper), °C	ISO 3016					
Winter quality		max.	-	-6	0	0
Summer quality		max.	-	0	6	6
Cloud Point, °C	ISO 3015	max.	-16	-	-	-
Sulphur, % (m/m)	ISO 8754	max.	1	1.5	2	2
Cetane number	ISO 5165	max.	45	40	35	-
Carbon residue (micro), (10%b) % (m/m)	ISO 10370	max.	0.3	0.3	-	-
Carbon residue (micro), % (m/m)	ISO 10370	max.	-	-	0.3	2.5
Ash, % (m/m)	ISO 6245	max.	0.01	0.01	0.01	0.05
Sediment, % (m/m)	ISO 3735	max.	-	-	-	-
Total existent sediment % (m/m)	ISO 10307-1	max.	-	-	0.1	0.1
Water, % (m/m)	ISO 3733	max.	-	-	-	0.3
Vanadium, % (m/m)	ISO 14597	max.	-	-	-	100
Aluminium plus silicon, mg/kg	ISO 10478	max.	-	-	-	25

USED LUBRICATING OILS:

If any bunker fuel contains
15 ppm of Zinc + 15 ppm
of Phosphorous + 30 ppm
of Calcium, this would
indicate presence of used
lube oil.

According to the new specs,
the fuel should be free of used
lube oils.

