



# ISO 8217:2005

## Fuel Standard for Marine Distillate Fuels

### Marine Distillate Fuels

Characteristic	Unit	Limit	DMX	DMA	DMZ	DMB
Viscosity at 40 °C	mm <sup>2</sup> /s	Max	5.5	6.0	11.0	14.0
		Min	1.4	1.5	–	–
Density at 15°C	kg/m <sup>3</sup>	Max	–	890.0	900.0	920.0
Micro Carbon Residue at 10% Residue	% m/m	Max	–	–	0.30	2.50
Micro Carbon Residue	% m/m	Max	–	–	–	0.30
Sulfur	% m/m	Max	1.00	1.50	2.00	
Water	% V/V	Max	–	–	0.30	0.30
Total Sediment Existent	% m/m	Max	–	–	0.10	0.10
Ash	% m/m	Max	0.010			0.05
Flash Point	°C	Min	43.0	60.0		
Pour Point	Winter	Max	–	-6	-6	0
	Summer		–	0	0	6
Cloud Point	°C	Max	-16	–	–	–
Cetane Index	–	Min	45	40	35	–
Vanadium	mg/kg	Max	–	–	–	100
Aluminum + Silicon	mg/kg	Max	–	–	–	25
Zinc	mg/kg	Max	–		–	15
Phosphorus	mg/kg	Max	–		–	15
Calcium	mg/kg	Max	–		–	30
Appearance	–	–	Clear & Bright			–

The above information is for informational purposes only.  
 Clipper Oil assumes no responsibility for any errors or omissions.