

ISO 8217: 2005
Standard for Petroleum products - Fuels (Class F) - Specifications of Marine Fuels

Marine Residual Fuels

Parameter	Unit	Limit	RMA 30	RMB 30	RMD 80	RME 180	RMF 180	RMG 380	RMH 380	RMK 380	RMH 700	RMK 700	
Density at 15 °C	kg/m ³	Max	960.0	975.0	980.0	991.0		991.0		1010.0	991.0	1010.0	
Viscosity at 50°C	mm ² /s	Max	30.0		80.0	180.0		380.0			700		
Water	% V/V	Max	0.5		0.5	0.5		0.5			0.5		
Micro Carbon Residue	% m/m	Max	10		14	15	20	18	22		22		
Sulfur ¹	% m/m	Max	3.5		4.00	4.50		4.50			4.50		
Ash	% m/m	Max	0.10		0.10	0.10	0.15	0.15	0.15		0.15		
Vanadium	mg/kg	Max	150		350	200	500	300	600		600		
Flash point	°C	Min	60		60	60		60			60		
Pour point, Summer	°C	Max	6	24	30	30		30			30		
Pour point, Winter	°C	Max	0	24	30	30		30			30		
Aluminium + Silicon	mg/kg	Max	80		80	80		80			80		
Total Sediment, Potential	% m/m	Max	0.10		0.10	0.10		0.10			0.10		
Zinc ²	mg/kg	Max										15	
Phosphorus ²	mg/kg	Max										15	
Calcium ²	mg/kg	Max										30	

¹ A sulfur limit of 1.5% m/m will apply in SO_x Emission Control Areas designated by the International Maritime Organization, when its relevant Protocol comes into force. There may be local variations.

² The Fuel shall be free of Used Lubrication Oil(ULO). A Fuel is considered to be free of ULO if one or more of the elements are below the limits. All three elements shall exceed the limits before deemed to contain ULO.