

FUEL SPECIFICATIONS ACCORDING TO ISO 8217

PETROLEUM PRODUCTS – FUELS (CLASS F) – SPECIFICATIONS OF MARINE FUELS

ISO Standard Table 1 – Distillate fuel

TEST	UNIT	LIMITS	Category ISO-F	Test Method ISO
▪ Density at 15 °C	kg/m ³	max.	890.0	3675 / 12185
▪ Approx. Kinematic Viscosity at 50 °C	mm ² /s (cSt)		-	3104
▪ Kinematic Viscosity at 40 °C	mm ² /s (cSt)	min.	2.000 – 3.000	3104
▪ Kinematic Viscosity at 40 °C	mm ² /s (cSt)	max.	6.000 – 10.000	3104
▪ Cetane index	-	Min.	40	4264
▪ Flash point	°C	min.	60	2719
▪ Pour Point (upper), Winter Quality	°C	max.	-6	3016
▪ Pour Point (upper), Summer Quality	°C	max.	0 ¹	3016
▪ Micro Carbon Residue 10% v/v distillation	%(m/m)	max.	3.0	10370
▪ Micro Carbon Residue	%(m/m)	max.	-	10370
▪ Cloud Point	°C	max.	-	3015
▪ Ash	%(m/m)	max.	0.010	6245
▪ Total Sediment Existent	mass %	max.	0.1	10307-1
▪ Water Karl Fischer	mg/kg	max.	200	12937
▪ Sulphur	%(m/m)	max.	0.10 ²	8754
▪ Hydrogen Sulphide	mg/kg	max.	2.00	10478
▪ Acid Number	mg KOH/g	max.	0.5	ASTM D664
▪ Oxidation Stability	g/m ³	max.	25	12205 / IP388
▪ Lubricity	µm	max.	520	12156 / IP450
▪ Color ASTM	-	max.	4	ASTM D 1500
▪ Appearance			Clear and Bright ³	

SSM OPERATIONAL CIRCULAR – Section 3 – ENGINEERING CIRCULAR 028/15

TEST	UNIT	LIMITS	Category	Test Method ISO
▪ Aerobic Microbial Content	CFU/gram or ml	max.	4.000	IP613
▪ Cold Filter Plugging Point	°C	max.	Less than 4 °C difference to the Pour Point	EN116 / IP309

¹ In Singapore all MGO DMA is sold as DMA with the exception of the Pour Point parameter, which for local climate reasons will not correspond.

² Statutory - in an ECA this must be max 0.1%S and max 1.5%S in all other areas

³ If the sample is dyed and not transparent, water test shall be required. The water content shall not exceed 200 mg/kg (0.02% m/m).