

ISO 8217 2010 FUEL STANDARD FOR MARINE RESIDUAL FUELS

MARINE RESIDUAL FUELS

| Limit | Parameter | RMA 10 | RMB 30 | RMD 80 | RME 180 | RMG | | | | RMK | | |
|-------|--|--|-----------|-----------|------------|-------|-------|-------|-------|--------|-------|-------|
| | | | | | | 180 | 380 | 500 | 700 | 380 | 500 | 700 |
| Max. | Viscosity at 50°C (mm ² /s) | 10.00 | 30.00 | 80.00 | 180.0 | 180.0 | 380.0 | 500.0 | 700.0 | 380.0 | 500.0 | 700.0 |
| Max. | Density at 15°C (kg/m ³) | 920.0 | 960.0 | 975.0 | 991.0 | 991.0 | | | | 1010.0 | | |
| Max. | Micro Carbon Residue (% m/m) | 2.50 | 10.00 | 14.00 | 15.00 | 18.00 | | | | 20.00 | | |
| Max. | Aluminium + Silicon (mg/kg) | 25 | 40 | | 50 | 60 | | | | | | |
| Max. | Sodium (mg/kg) | 50 | 100 | | 50 | 100 | | | | | | |
| Max. | Ash (% m/m) | 0.040 | 0.070 | | | 0.100 | | | | 0.150 | | |
| Max. | Vanadium (mg/kg) | 50 | 150 | | | 350 | | | | 450 | | |
| Max. | CCAI | 850 | 860 | | | 870 | | | | | | |
| Max. | Water (% V/V) | 0.30 | 0.50 | | | | | | | | | |
| Max. | Pour point (upper) in Summer (°C) | 6 | | | 30 | | | | | | | |
| Max. | Pour point (upper) in Winter (°C) | 0 | | | 30 | | | | | | | |
| Min. | Flash point (°C) | 60.0 | | | | | | | | | | |
| Max. | Sulphur (% m/m) | Statutory requirements | | | | | | | | | | |
| Max. | Total Sediment, aged (% m/m) | 0.10 | | | | | | | | | | |
| Max. | Acid Number (mgKOH/g) | 2.5 | | | | | | | | | | |
| | Used lubricating oils (ULO): Calcium and Zinc; or Calcium and Phosphorus (mg/kg) | The fuel shall be free from ULO, and shall be considered to contain ULO when either one of the following conditions is met: Calcium > 30 and zinc > 15; or Calcium > 30 and phosphorus > 15. | | | | | | | | | | |
| Max. | Hydrogen sulphide (mg/kg) | 2.00 | | | | | | | | | | |

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