



ISO 8217:2010

Fuel Standard for Marine Residual Fuels

Marine Residual Fuels

| Characteristic | Unit | Limit | RMA 10 | RMB 30 | RMD 80 | RME 180 | RMG | | | | RMK | | |
|-----------------------------|--------------------|-------|---|-----------|-----------|------------|-------|-------|-------|-------|--------|-------|-------|
| | | | | | | | 180 | 380 | 500 | 700 | 380 | 500 | 700 |
| Viscosity at 50 °C | mm ² /s | Max | 10.00 | 30.00 | 80.00 | 180.0 | 180.0 | 380.0 | 500.0 | 700.0 | 380.0 | 500.0 | 700.0 |
| Density at 15°C | kg/m ³ | Max | 920.0 | 960.0 | 975.0 | 991.0 | 991.0 | | | | 1010.0 | | |
| Micro Carbon Residue | % m/m | Max | 2.50 | 10.00 | 14.00 | 15.00 | 18.00 | | | | 20.00 | | |
| Aluminum + Silicon | mg/kg | Max | 25 | 40 | | 50 | 60 | | | | | | |
| Sodium | mg/kg | Max | 50 | 100 | | 50 | 100 | | | | | | |
| Ash | % m/m | Max | 0.040 | 0.070 | | | 0.100 | | | | 0.150 | | |
| Vanadium | mg/kg | Max | 50 | 150 | | | 350 | | | | 450 | | |
| CCAI | - | Max | 850 | 860 | | | 870 | | | | | | |
| Water | % V/V | Max | 0.30 | 0.50 | | | | | | | | | |
| Pour Point (Upper) | Summer | Max | °C | 6 | | | 30 | | | | | | |
| | Winter | | | 0 | | | 30 | | | | | | |
| Flash Point | °C | Min | 60.0 | | | | | | | | | | |
| Sulphur | % m/m | Max | To comply with requirements as defined by purchaser | | | | | | | | | | |
| Total Sediment, Aged | % m/m | Max | 0.10 | | | | | | | | | | |
| Acid Number | mgKOH/g | Max | 2.5 | | | | | | | | | | |
| Used Lubricating Oils (ULO) | mg/kg | - | (Calcium and Zinc; or Calcium and Phosphorus) 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. | | | | | | | | | | |
| Hydrogen Sulphide | mg/kg | Max | 2.00 | | | | | | | | | | |

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