

ISO 8217 : 2010 (4th ED)

| MARINE DISTILLATE FUELS | | | | | | |
|---|--|--------------|-------------------------|------------|------------|---------------|
| Parameter | Unit | Limit | DMX | DMA | DMZ | DMB |
| Viscosity at 40°C | mm ² /s | Max | 5.500 | 6.000 | 6.000 | 11.00 |
| Viscosity at 40°C | mm ² /s | Min | 1.400 | 2.000 | 3.000 | 2.000 |
| Micro Carbon Residue at 10% Residue | % m/m | Max | 0.30 | 0.30 | 0.30 | - |
| Density at 15°C | kg/m ³ | Max | - | 890.0 | 890.0 | 900.0 |
| Micro Carbon Residue | % m/m | Max | - | - | - | 0.30 |
| Sulphur a | % (m/m) | Max | 1.00 | 1.50 | 1.50 | 2.00 |
| Water | % V/V | Max | - | - | - | 0.30 b |
| Total sediment by hot filtration | % m/m | Max | - | - | - | 0.10 b |
| Ash | % m/m | Max | 0.01 | 0.01 | 0.010 | 0.010 |
| Flash point | °C | Min | 43.0 | 60.0 | 60.0 | 60.0 |
| Pour point, Summer | °C | Max | 0 | 0 | 0 | 6 |
| Pour point, Winter | °C | Max | -6 | -6 | -6 | 0 |
| Cloud point | °C | Max | -16 | - | - | - |
| Calculated Cetane Index | | Min | 45 | 40 | 40 | 35 |
| Acid Number | mgKOH/g | Max | 0.5 | 0.5 | 0.5 | 0.5 |
| Oxidation stability | g/m ³ | Max | 25 | 25 | 25 | 25 c |
| Lubricity, corrected wear scar diameter (wsd 1.4 at 60°C d) | um | Max | 520 | 520 | 520 | 520 c |
| Hydrogen sulphide e | mg/kg | Max | 2.00 | 2.00 | 2.00 | 2.00 |
| Appearance | | | Clear & Bright f | | | b, c |
| a | A sulphur limit of 1.00% m/m applies in the Emission Control Areas designated by the International Maritime Organization. As there may be local variations, the purchaser shall define the maximum sulphur content according to the relevant statutory requirements, notwithstanding the limits given in this table. | | | | | |
| b | If the sample is not clear and bright, total sediment by hot filtration and water test shall be required | | | | | |
| c | Oxidation stability and lubricity tests are not applicable if the sample is not clear and bright. | | | | | |
| d | Applicable if sulphur is less than 0.050% m/m. | | | | | |
| e | Effective only from 1 July 2012. | | | | | |
| f | 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). | | | | | |