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MARINE FUEL OIL type RME 180 (IFO 180) (ST 2/2006)

Custom code : 2710.19.61

TECHNICAL SPECIFICATIONS :

| CHARACTERISTICS | QUALITY TECHNICAL CONDITIONS | ANALYSIS METHOD | |
|---|------------------------------|-----------------|-------------|
| | | ISO | ASTM |
| Density at 15 °C, kg/m ³ max. | 950 | 3675 | D 1298 / 85 |
| Viscosity at 50 °C mm ² /s, max. | 180 | 3104 | D 445 / 96 |
| Flash point , °C, min. | 90 | 2719 | D93 / 97 |
| Sulphur, %, (m/m), max. | 1 | 8754 | D 4294 / 90 |
| Water, % (v/v), max. | 0.5 | 3733 | D 1744 |
| Total potential sediment % (m/m),max. | 0.1 | 10307-2 | - |
| Pour point, °C max. | +30 | 3016 | D97/ 96 |
| Ash content, % (m/m), max. | 0.1 | 6245 | D 482 / 95 |
| Conradson coke residuum, % (m/m), max. | 10 | 6615 | D 189 / 97 |
| *)Vanadium , mg/kg, max. | - | 14597 | - |
| *)Aluminum + silicon, mg/kg, max. | - | 10478 | - |
| Calculated low calorific power kJ/kg min. | 9500 | 8217 | - |

GENERAL DESCRIPTION:

Present specification are referring to the **MARINE FUEL OIL type RME 180**, commercial denomination- IFO 180 (Intermediate Fuel Oil 180) produced from heavy and medium oil fractions mixture, obtained from primary and secondary crude oil processing.

APPLICATIONS:

This product is used as combustible for maritime vessels as per technical specifications.

End users are sole responsible for not using the product in accordance with producer's prescriptions and import country legislation in force.

PACKAGING – STORAGE:

The packaging, marking and storage shall be made as per stipulations of Romanian standard STAS 4225/79 and of Material Safety Data Sheet.

Product has to be delivered only in suitable means of transportation, each lot being accompanied by quality, quantity certificates and transport safety data sheet. Quality is guaranteed for 3 (three) months starting from producing date, stipulated storage conditions have to be observed.

SAFETY MEASURES:

As product is flammable, usual caution measures of fire prevention have to be taken when handling and storing this product.

Note: The info in this technical sheet is valid until the 31st of December, 2008. We ask you to contact STEAUA ROMANA REFINERY in order to see if the document has been revised .