



# Shell Marine Fuel Oil 180

## DESCRIPTION

Shell Marine Fuel specifications provide a broad choice of fuel qualities that enable the most economic fuel to be safely matched to the appropriate engine and its associated fuel system.

Shell Marine Fuel Oil 180 is a residual fuel oil with a maximum viscosity at 50°C of 180 cSt. The fuel properties will need to be matched to the appropriate engine or burner and associated fuel system.

The specifications are kept under constant review against a background of engine and equipment developments.

Shell Marine Fuel Oil 180 meets the requirements of ISO 8217:2005 (E) Grade RME 180.

## HEALTH AND SAFETY

It is unlikely to present any significant health or safety hazard when properly used in the recommended application.

For further guidance on product health & safety refer to the appropriate Shell Material Safety Data Sheet (MSDS).

## TYPICAL CHARACTERISTICS

DESCRIPTION	UNITS	METHODS	LIMITS
Density @ 15 °C	kg/mm <sup>3</sup>	ASTM D1298/D4052	900.0 - 991.0
Viscosity @ 50 °C	mm <sup>2</sup> /s	ASTM D445	120 - 180
Flash Point	°C	ASTM D93	65 min
Pour Point	°C	ASTM D97	30 max
Sulphur	% mass	ASTM D2622	4.0 max
Water	% vol	ASTM D95	0.5 max
Ash	% mass	ASTM D482	0.10 max
Carbon Residue	% mass	ASTM D4530	15.0 max
Strong Acid Number	mg KOH/gm	ASTM D974	nil
Total Acid Number	mg KOH/gm	ASTM D974	3.0 max
Aluminium + Silicon	mg/kg	ASTM D5184	70 max
Vanadium	mg/ kg	ASTM D5863	200 max

## ADVICE

Advice on applications not covered in this leaflet may be obtained from your Shell Representative or the Shell Customer Service Centre: Free Call 1300 134 205

### Document Information

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