

# Technical Data Sheet

## Neste-raskas polttoöljy LS 180

Neste Heavy Fuel Oil 180, Low Sulphur

1/1/2024

Properties	Unit	Specification		Test Method*
		min	max	
Kinematic viscosity at 50 °C	mm <sup>2</sup> /s	140	180	ISO 3104
Kinematic viscosity at 80 °C	mm <sup>2</sup> /s	35	43	ISO 3104
Density at 15°C	kg/m <sup>3</sup>	910	1020	EN ISO 12185
Sulfur	wt-%	-	1.00	EN ISO 8754 NM380
Flash point	°C	60	-	ISO 2719
Total sediment	wt-%	-	0.15	ISO 10307-1
Carbon residue - Micro method	wt-%	-	18	ISO 10370
Pour point	°C	-	30	ASTM D 5950 ISO 3016
Water	wt-%	-	0.7	ISO 10336 ISO 3733 ASTM D 6304 C
Ash	wt-%	-	0.1	ISO 6245
Net heat of combustion	MJ/kg	40.1	-	ASTM D240
Carbon	wt-%	Reported		ASTM D5291
Nitrogen	wt-%	Reported		ASTM D5291
Vanadium	mg/kg	Reported		IP 501 ISO 10478M NM122
Nickel	mg/kg	Reported		IP 501 ISO 10478M NM122
Asphaltenes	mg/kg	Reported		DIN 51595
Burning catalyst		added**		

### Foot notes

\* NM refers to Neste's in-house method

\*\* Burning catalyst shall not be added if carbon residue is under 5 % m/m

The product can also be made by blending PORL420 and middle distillate to the right viscosity. This blend product is analyzed only at regular intervals.

The product will comply with the specification according to the procedures described in ISO 4259.

Concerning safe use of the products, we refer to the Safety Data Sheets and User's Guides published by Neste Oyj.

### INQUIRIES

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