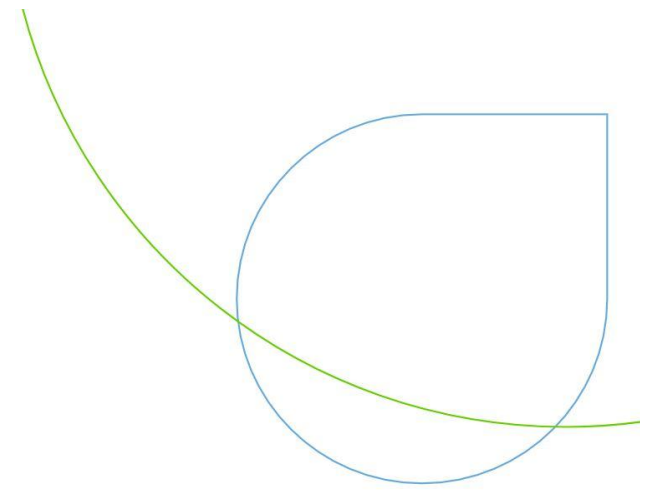


Technical Data Sheet

Neste Marine 0.5



29/10/2019

Neste Marine 0.5 meets ISO8217:2017 Category ISO-F-RMG380.

Properties	Unit	Specification		ISO 8217 limits		Test Method*
		min	max	min	max	
Kinematic viscosity at 50 °C	mm ² /s	-	380.0	-	380.0	ISO 3104
Density at 15°C	kg/m ³	-	991.0	-	991.0	EN ISO 12185
CCAI	-	-	870	-	870	
Sulfur	wt-%	-	0.50	-	0.50	EN ISO 8754
Flash point	°C	60.0	-	60.0	-	ISO 2719
Hydrogen sulfide	mg/kg	-	2.00	-	2.00	IP 570
Acid number	mgKOH/g	-	2.5	-	2.5	ASTM D664
Total sediment - Aged	wt-%	-	0.10	-	0.10	ISO 10307-2
Carbon residue - Micro method	wt-%	-	18.00	-	18.00	ISO 10370
Pour point	°C	-	30	-	30	ASTM D 5950
Water	wt-%	-	0.50	-	0.50	ISO 10336M
Ash	wt-%	-	0.100	-	0.100	ISO 6245
Vanadium	mg/kg	-	350	-	350	IP 501, ISO 10478M
Sodium	mg/kg	-	100	-	100	IP 501, ISO 10478M
Aluminum	mg/kg	-	30	-	30	IP 501, ISO 10478
Silicon	mg/kg	-	30	-	30	IP 501, ISO 10478
Calcium	mg/kg	-	30	-	30	IP 501, NM 561B
Zinc	mg/kg	-	15	-	15	IP 501, NM 561B
Phosphorus	mg/kg	-	15	-	15	IP 501, NM 561B
Carbon	wt-%	Reported		-	-	ASTM D5291
Net heat of combustion	MJ/kg	Reported		-	-	ASTM D240
Emission factor	tCO ₂ /TJ	Reported		-	-	NM 491

The supplier guarantees no FAME is added into the product.

Foot notes

* NM refers to Neste's in-house method