



OLIEHANDEL KLAAS DE BOER B.V.

Trawlerkade 58
 1976 CB IJMUIDEN
 +31-(0)255-513240
bunkers@klaasdeboer.nl

DIN EN-590

Specifications	Unit	Threshold values acc. to DIN EN 590	Requirements not specified/stricter than DIN EN 590	Test method
Appearance	---	---	Clear at 20 °C (01.03.-31.10.) Clear at 10 °C (01.11.-29.02.) (free from any visible water and solid foreign particles)	Visual
Colour	---	---	max. 2	DIN ISO 2049
Density at 15°	kg/m ³	min. 820 max.845	---	EN ISO 3675:1998 EN ISO 12185:1996
Cetane (acc. to CFR) number (acc. to BASF)	---	min. 51 min. 52.2	---	EN ISO 5165:1998 DIN 51773
Cetane index	---	min. 46	---	EN ISO 4264
Viscosity at 40 °C	mm ² /s	2 - 4,5	---	EN ISO 3104
Flashpoint	°C	min. 55	min. 59	EN 22719
Neutralisation number	mg KOH/g	---	max.0.2	DIN 51558 Part 1
Corrosive effect on copper (3h at 50 °C) degree	Corrosion	max. 1	---	EN ISO 2160
Total contamination, indicated as mass concentration	mg/kg	max. 24	---	EN 12662
Oxidation stability, indicated as mass concentration	g/m ³	max.	---	EN ISO 12205
Sulphur content	mg/kg	max. 10	---	EN ISO 20884 EN ISO 20846 ASTM D 5453 DIN 51400-T11
Carbon residue distillation residue	% (m/m)	max. 0,3	---	EN ISO 10370
Ash content	% (m/m)	max. 0,01	---	EN ISO 6245
Distillation at 250 °C 350 °C at 95%	Vol.% Vol.% Vol.%	< 65 min. 85 --- max. 360°C	--- --- ---	prEN ISO 3405:1998
Lubricity Micrometer	Micrometer	max. 460	---	ISO12156-1
Conductivity at 20 °C	Ps/M	---	Min.50 ps/M	DIN 51412-2 ASTM D 2624
Polycyclic aromatic hydrocarbons (PAH)	% (m/m)	max. 11%	---	EN 12916 IP 391/95
Water content	mg/kg	max. 200	---	prEN ISO 12937:1996
Fatty acid methyl ester content (FAME)***	% V/V	max. 5	---	EN 14078
Cold flow properties* 01.03.-14.04. 15.04.-14.09 15.09.-14.10. 15.10.-31.10. 01.11.-28.02.**	°C	CFPP -10 (01.03.-14.04.) . 0 (15.04.-30.09.) -10 (01.10.-15.11.) -20 (16.11.-28.02.)	CP/CFPP -3/-13 +5/-2 -3/-13 -3/-13 -7/-22	ISO 3015 EN 116 / IP 309

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