

Shell GTL Fuel Bio

Alternative natural gas based cleaner burning fuel for diesel engines

Description

Shell GTL Bio is an alternative fuel for diesel engines, which burns much cleaner and thus can reduce local emissions of particles, NO_x, hydrocarbons and carbon monoxide compared to the use of ordinary diesel.

Shell GTL Fuel Bio contains virtually no aromatics, polycyclic aromatic compounds, olefins, sulfur, nitrogen or metals. The fuel is colorless and almost odorless, but the blended in biocomponent can give a faint yellowish tinge and a faint odor. Has a much higher cetane number which deliver better combustion properties compared with ordinary diesel and provides an improved combustion. Features that helps to reduce local emissions compared to the use of ordinary diesel.

Shell GTL Fuel Bio is a paraffinic diesel which meets the requirements for the quality of diesel oil and gas oil in the diesel specification EN590 but with the exception for density, for use in motor vehicles, tractors and mobile non-road machinery.

Specification

Shell GTL Fuel Bio meets the requirements in the specification EN 15940 "Class A".

Furthermore, requirements in a range of other specifications and standards are meet: The generic US diesel standard, ASTM D975 and the Japanese JIS K 2204, The EU Fuels Quality Directive 98/70/EC and ISO 8217 DMA. Readily biodegradable OECD 301F / 307.

Shell GTL Fuel Bio contains biocomponents which can be FAME.

Cold Flow Properties

Feature	Full Year
Cold Filter Plugging Point (CFPP), max. °C	÷ 18
Cloud Point, max. °C	÷ 13

Typical Energy Data

Feature	Data
Lower Heating Value, typical, MJ/kg	44,0
Energy Content, kWh/l	9,5



Typical Product Properties

EN15940 Class A

Feature	Unit	Min.	Max.	Method
Cetan Number		70,0		EN ISO 5165 EN 15195
Density at 15 °C	kg/m ³	765,0	800,0	EN ISO 3675 EN ISO 12185
Total Aromatics	% (m/m)		1,0	EN 12916 UOP 495 SIS 155116
Sulphur Content	mg/kg		5,0	EN ISO 20846 EN ISO 20884
Flash Point	°C	>55 ¹		EN ISO 2719
Carbon Residue (on 10 % distillation residue)	% (m/m)		0,30	EN ISO 10370
Ash Content	% (m/m)		0,01	EN ISO 6245
Water Content	mg/kg		150	EN ISO 12937
Total Contamination	mg/kg		24	EN 12662
Copper strip corrosion (3 hrs at 50 °C)		Class 1		EN ISO 2160
Oxidation Stability	g/m ³		25	EN ISO 12205
Oxidation Stability	timer	20		EN 15751
FAME content ²	% (v/v)		7,0	EN 14078
Lubricity, corrected wear scar diameter (wsd) at 60 °C	µm		460	EN ISO 12156-1
Viscosity at 40 °C	mm ² /s	2,00	4,50	EN ISO 3104
Distillation 95 % (v/v) recovered at	°C		360	EN ISO 3405
Distillation % (v/v) recovered at 250 °C	% (v/v)		<65	EN ISO 3405
Distillation % (v/v) recovered at 350 °C	% (v/v)	85		EN ISO 3405

¹Shell GTL Fuel Bio >60°C.

² If use of FAME the typical value can be 1% in Shell GTL Fuel Bio

For the Safety Data Sheet please visit dccenergi.dk.

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