Technical Data Sheet

Hydrotreated Vegetable Oil (HVO)

Description:
Automotive fuels - paraffinic diesel fuel from synthesis or hydrotreatment

Specification:
BS EN 15940:2016+A1:2018

Date of issue:
08th April 2021

PROPERTY	UNITS	TEST METHOD[a]	LIMITS CLASS A		LIMITS CLASS B	
			MIN	MAX	MIN	MAX
Cetane number		EN 15195 prEN 16906 EN ISO 5165	70.0	-	51.0	-
Density at 15˚C	kg/m^3	EN ISO 3675 EN ISO 12185	765.0	800.0	780.0	810.0
Flash point	˚C	EN ISO 2719	>55, 0	-	>55,0	-
Carbon residue (on 10% distillation residue)	%(m/m)	EN ISO 10370	-	0.3	-	0.3
Ash content	%(m/m)	EN ISO 6245	-	0.010	-	0.010
Water content	% (m/m)	EN ISO 12937	-	0.020	-	0.020
Total contamination	mg/kg	EN ISO 12662	-	24.0	-	24.0
Copper strip corrosion (3h at 50˚C)		EN ISO 2160	Class 1		Class 1	
Oxidation stability	g/m^3	EN ISO12205	-	25.0	-	25.0
	h	EN 15751	20.0[e]	-	20.0[e]	-
Lubricity, corrected wear scar diameter at 60˚C	µm	EN 12156-1		460.0		460.0
Viscosity at 40˚C	mm^2/s	EN ISO 3104	2.000	4.500	2.000	4.500
Distillation[f] %(v/v) recovered at 250˚C %(v/v) recovered at 350˚C 95%(v/v)	% (V/V) % (V/V) ˚C	EN ISO 3405 EN ISO 3924	- 85 -	< 65 - 360.0	- 85 -	< 65 - 360.0
Initial boiling point	˚C	EN ISO 3405[b]	Report		Report	
FAME content [c]	% (V/V)	EN 14078	-	7.0	-	7.0
Maganese content	mg/l	EN 156576	-	2.0		2.0
Total aromatics content [d]	%(m/m)	EN 12916	-	1.1	-	1.1
Sulphur content	mg/kg	EN ISO 20846 EN ISO 20884	-	5.0	-	5.0

[a] All test methods are applicable to paraffinic diesel fuels.

[b] Limits are in EN ISO 3405 scale. EN ISO 3924 results shall be converted according to EN ISO 3924:2010.

[c] FAME shall meet the requirements of EN 14214

[d] Total aromatics content includes polycyclic aromatic hydrocarbons. If the product conforms to the limit in the table it also conforms to actual legal limits on polycyclic aromatic hydrocarbons content.

[e] For paraffinic diesel fuel containing FAME above 2 % (V/V) this is an additional requirement.

[f] The limits for distillation at 250 °C and 350 °C are included for diesel fuel in line with EU Common Customs tariff.

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