

Hydrogenated Vegetable Oil (HVO) for automotive applications

BS EN 15940:2023 - Paraffinic diesel fuel from synthesis or hydrotreatment.

Property	Unit	Limits		Test Method
		Min.	Max.	
Cetane Number		70	—	EN ISO 15195
Density at 15°C	kg/m ³	765	800	EN ISO 12185
Flash point	°C	55.1	—	EN ISO 2719
Viscosity at 40°C	mm ² /s	2.00	4.50	EN ISO 3104
Distillation:				EN ISO 3405
recovery at 250°C	% (V/V)	—	<65	
recovery at 350°C	% (V/V)	85	—	
95% (V/V) recovered at	°C	—	360	
Lubricity, corrected mean wear scar diameter (wsd 1.4) at 60 °C	µm	—	400	EN ISO 12156-1
Fatty Acid Methyl Ester (FAME) content ^{a)}	% (V/V)	—	7.0	EN 14078
Manganese content	mg/l	—	2.00	EN ISO 16576
Total aromatics content	% (m/m)	—	1.1	EN ISO 12916
Sulfur content	mg/kg	—	5.00	EN ISO 20846
Carbon residue (micro) [10 % (V/V) distillation bottoms]	% (m/m)	—	0.30	EN ISO 10370
Ash content	% (m/m)	—	0.010	EN ISO 6245
Water content	% (m/m)	—	0.020	EN ISO 12937
Total contamination	mg/kg	—	24	EN 12662
Copper strip corrosion (3h at 50°C)	Rating	Class 1		EN ISO 2160
Oxidation stability:	g/m ³	—	25	EN ISO 12205
	h	20	—	EN 15751
Appearance at 15°C		Clear & Bright		Visual Inspection
Cloud Point	°C			EN 23015
Summer (16 March to 15 October)		—	-5	
Winter (16 October to 15 March)		—	-15	
Cold filter plugging point (CFPP)	°C			EN 116
Summer (16 March to 15 October)		—	-5	
Winter (16 October to 15 March)		—	-15	

Renewable Diesel is a premium-quality fuel, making it a clean-burning, environmentally friendly diesel alternative, with the added benefit of a much longer shelf life.

^{a)} Zero FAME added