



Minimum Requirements for quality of vegetable oil as fuel for engine power plant

MHN27.012.02

Qualities / ingredients	Measures	Limit values		Method of testing
		min.	max.	
Density (15°C)	kg/m <sup>3</sup>	900	950	ASTM D40
Flashpoint	°C	200		EN ISO 2719
Net calorific value	kJ/kg	36000		ASTM D240
Kinematic viscosity (40°C)	mm <sup>2</sup> /s		38	ASTM D445
Kinematic viscosity (50°C)	mm <sup>2</sup> /s			ASTM D445
Kinematic viscosity (70°C)	mm <sup>2</sup> /s			ASTM D445
Ash content	Masse - %		0,1	ISO 6884
Sulfur content	mg/kg		50	ASTM D5453-93
Pour point	°C	+5		ASTM D97
Oxidation resistance (110 °C)	h	5		ISO 6886
Free fatty acid	Masse - %		2,0	DIN EN ISO 660
Water content	mg/kg		750	EN ISO 12937
Total acid number	mg KOH/g		4,0	DIN EN ISO 660
Phosphor content	mg/kg		30	ASTM D3231-99
Degree of fouling	mg/kg		50	DIN EN 12662

Standard reference:

- DIN 51605 – E ( 2005-06)