

**TECHNICAL SPECIFICATIONS FOR FUEL – HFHSD**

<b><u>Ser</u></b>	<b><u>Characteristics</u></b>	<b><u>ASTM Method</u></b>	<b><u>Fuel Specifications</u></b>
1.	Appearance, (at 25° C or ambient, whichever is higher)	D4176	Clear, bright and free from visible particle
2.	Colour (max)	D1500 (R)	3
3.	Density, at 15° C, kg/m <sup>3</sup> (max)	D4052	876
4.	Distillation:	D86	
	10% Point, °C		Report
	50% Point, °C		Report
	90% Point, °C (max)		357
	End Point, °C (max)		385
	Residue % vol. (max)		3.0
5.	Flash Point, °C (min)	D93	66
6.	Viscosity, at 40° C, mm <sup>2</sup> /s	D 445	1.7 – 4.3
7.	Pour Point, °C (max)	D5949	-06° C
8.	Cloud Point, °C (max)	D5773	-01
9.	Acid Number mg KOH/g (max)	D974	0.30
10.	Sulphur Content wt. % (max)	D5453	0.1
11.	Ash, wt. % (max)	D482	0.005
12.	Carbon Residue 10% bottom, wt. % (max)	D4530	0.14
13.	Copper Corrosion, at 100° C (max)	D130	NO. 1
14.	Catane Number, (min)	D613	46
	Catane Index, (min)	D 4737	45
15.	Storage Stability/ oxidation stability total insolubles, mg/ 100 ml (max)	D2274/ D 5304	3.0
16.	Demulsification, at 25° C minutes (max)	D1401	10
17.	Lubricity, at 60° C micrometers (max)	ISO 12156	460
18.	Trace Metals, PPM (max): Calcium Lead Sodium & Potassium Vanadium	D7111	1.0 0.5 1.0 0.5
19.	Hydrogen Content, wt. % (min)	D7171, D4808, D5291	12.5
20.	Particulate Contamination, mg/lit (max)	D 6217	10
21.	Water and Sediment content, % vol (max)	D2709	0.05
22.	Cold Filter plugging point (CFPP), °C	D6371	Max 0° C