

## PRODUCT SPECIFICATION

### ENERSOL HFO

TEST	UNIT	TYPICAL	LIMIT	METHOD
Ash	%wt	<0.01	0.01 (max)	ASTM D482
Carbon Residue	%wt	<1	1.5 (max)	ASTM D4530
Density @ 15°C*	kg/L	0.845	0.84 (min) 0.86 (max)	ASTM D5002
Distillation – IBP	°C	120	100 (min)	ASTM D7169
Distillation – 90%	°C	500		ASTM D7169
Flash Point*	°C	70	62 (min)	ASTM D93
Pour Point	°C	<30	30 (max)	ASTM D97
Specific Energy	MJ/kg	45.5		ASTM D4868
Sulphur	%wt	0.06	0.08 (max)	ASTM D4294
Total Nitrogen	mg/kg	200		ASTM D3228
Basic Nitrogen	mg/kg	100		ASTM D3228
Kinematic Viscosity (@ 40°C)	mm <sup>2</sup> /s	13	20 (max)	ASTM D445
Nickel Content	mg/kg	<1	1 (max)	IP288
Sodium Content	mg/kg	<2	2 (max)	IP288
Vanadium Content	mg/kg	<1	1 (max)	IP288
Lead Content	mg/kg	<1	1 (max)	IP288
Water & Sediment	%vol	0.1	0.15 (max)	ASTM D2709

Properties marked with (\*) will be tested and verified with the Certificate of Analysis.

#### Dangerous Goods Details

UN Number	Not applicable
Dangerous Good Class	Not applicable
Subsidiary Risk	Not applicable
Packing Group	Not applicable
Hazchem Code	Not applicable