

Middle distillate fuel for heating applications.

Property	Unit	Limits		Test Method	Typicals
		Min.	Max.		
Appearance ^{a)}	Visual	Clear & Bright		D 4176	Clear & bright
Kinematic viscosity at 40°C	mm ² /s	1.70	6.00	IP 71	3.00
Density at 15°C	kg/m ³	820.0	—	IP 365	832.0
Carbon residue (micro)	% (m/m)	—	0.30	ASTM D 4530	<0.01
Flash point	°C	45	—	IP 34	55
Water content ^{a)}	% (m/m)	—	0.020	IP 438	<0.02
Particulate content	mg/kg	—	24	IP 415	<5
Ash content	% (m/m)	—	0.01	IP 4	<0.001
Silicon content	% (m/m)	—	0.0001	IP 336	<0.0001
Sulfur content	% (m/m)	—	0.10	IP 336	0.03
Copper corrosion (3h at 50°C)	class	—	1	BS EN ISO 2160	1a
Cold filter plugging point (CFPP) ^{b)}	°C			IP 309	
Summer (16 March to 15 November)		—	-4		<-12
Winter (16 November to 15 March)		—	-12		<-12
Strong acid number	mg KOH/g	—	Zero	IP 139	Zero
Lubricity, corrected mean wear scar diameter (wsd 1.4) at 60 °C	µm	—	460	BS 2000-450	340
Oxidation Stability	g/m ³	—	25	In-house	8

Ultra35 heating Gas oil can only be used in heating applications, it is not to be used as a fuel for any engine, motor or other machinery.

^{a)} If sample is not clear & bright, then water content limit shall apply.

^{b)} Winter grade all year round

Additional Data

Specific Energy (calorific value), MJ/kg of Oil	Gross - 45.74	Net - 42.84
Gross Heat of Combustion, Cal/g	Gross - 10925	Net - 10235
Carbon / Hydrogen (% m/m)	Carbon - 86.4%	Hydrogen - 13.6%
Nitrogen (% m/m)	<0.1%	
Equivalent to MJ / kg of CO ₂ produced	14.4 MJ / kg CO ₂	

Ultra35 is unaffected by the 01/04/22 changes to Red Diesel and Biodiesel taxation, & can be used for all heating uses.

