



## Nationwide Fuels

### Gas Oil | Class D

Parameter	Unit	Minimum	Maximum	Typical
Appearance	-	Clear & bright, Cherry Red, Free from visible sediment.		Pass
Density at 15°C	kg/m <sup>3</sup>	0.820	-	0.860
Kinematic viscosity at 40°C	mm <sup>2</sup> /s	1.5	5.5	3.0
Carbon residue (Ramsbottom on 10% residue)	% (m/m)	-	0.30	0.10
Distillation recovery at 250°C	% (v/v)	-	65	42
at 350°C	% (v/v)	85	-	92
Flash point (PMCC)	°C	56	-	>62
Water content	mg/kg	-	200	<100
Particulate content	mg/kg	-	24	<10
Ash content	% (m/m)	-	0.01	<0.01
Sulphur content	% (m/m)	-	0.10	<0.098
Copper corrosion (3 hrs at 50°C)	Class	-	1	1a
Cold filter plugging point(1) Summer	°C	-	-4	-8
Winter	°C	-	-12	-14
Cetane number		45	-	48
Fatty acid methyl ester (FAME)	% (v/v)	-	7.0	<0.1



Parameter	Unit	Minimum	Maximum	Typical
Carbon	% (m/m)	-	-	87
Hydrogen	% (m/m)	-	-	12.75
Nitrogen	% (m/m)	-	-	0.01 – 0.05
Gross specific energy	MJ/kg	-	-	45.4
	MJ/litre	-	-	38.8
Mean specific heat capacity over 0 - 100°C	KJ/kg°C	-	-	2.05
Volume correction factor	per °C	-	-	0.00081
Strong acid number	mg KOH/g	-	nil	nil
Lubricity (HFRR)	µm	-	460	<460
Oxidation stability	0.0 – 7.0% FAME	-	25	-
	2.0 – 7.0% FAME	20	-	-

This specification is not a guarantee. We reserve the right to alter the specifications without any notice.