

EN 590 Gas Oil Specifications

Gas oil, also known as red diesel, is used for untaxed vehicles, stationary diesel engines and small boiler and furnace applications. It comes with a red dye, which is used to mark the product. The following table shows the chemical and physical specifications of gas oil that are required by the EN590 standard:

Parameter	Unit	Min	Max	Typical
Appearance	Clear & bright, Cherry Red, Free from visible sediment.	Pass		
Ash content	% (m/m)	_	0.01	<0.001
Carbon	% (m/m)	_	-	87
Carbon residue(Ramsbottom on 10% residue)	% (m/m)	_	0.3	0.1
Cetane number	_	45	-	48
Cold filter plugging point(1) Summer	°C	_	-4	-8
Cold filter plugging point(1) Winter	°C	_	-12	-14
Copper corrosion(3 hrs at 50°C)	Class	_	1	Та
Density at 15°C	kg/m³	0.82	-	0.86
Distillation recovery at 250°C	% (v/v)	_	65	42
Distillation recovery at 350°C	% (v/v)	85	-	92
Fatty acid methyl ester (FAME)	% (v/v)	_	7	<0.1
Flashpoint (PMCC)	°C	56	-	>62
Gross specific energy (MJ/kg)	MJ/kg	_	-	45.4
Gross specific energy (MJ/litre)	MJ/litre	_	-	38.8
Hydrogen	% (m/m)	_	-	12.75
Kinematic viscosity at 40°C	mm²/s	1.5	5.5	3
Lubricity (HFRR)	μm	_	460	<460
Mean specific heat capacity over 0 – 100°C	KJ/kg °C	_	-	2.05
Nitrogen	% (m/m)	_	-	0.01 – 0.05
Oxidation stability 0.0 – 7.0% FAME	g/m³	_	25	_
Oxidation stability 2.0 – 7.0% FAME	h	20	_	-
Particulate content	mg/kg	_	24	<10
Strong acid number	mg KOH/g	_	nil	nil
Sulphur content	% (m/m)	_	0.002	<0.0015
Volume correction factor	per °C	_	_	0.00081
Water content	mg/kg	_	200	<100

What Do We Offer?

- White Diesel
- Kerosene Oil
- HVO Fuel
- Biodiesel
- CHP Biofuel
- Home Heating OilAncillary Products
- Red Diesel
- FAME Biodiesel
- Industrial Lubricants
- Industrial Heating Oil
 Carbon Offset Red Diesel
- Marine Lubricants
- Industrial Lubricants
- Marine Gas Oil

- Marine Diesel Oil
 Hydraulic Oil
 Premium Paraffin
 - Peat Briquettes
 AdBlue
- Emergency Oil Delivery
- Environmental Services
- Fuel Management
- Fuel Polishing
- Fuel Uplift Service
- Fuel Monitoring

0

y

- Nationwide Fuel Delivery
- Fuel Tank Telemetry
- Industrial Tank Cleaning Marine Tank Cleaning
 Oil Tank Replacement

Our Services

Domestic Oil Tank Removal

Oil Tank Installation

- Oil Tank Cleaning
- Tank Inspection
- Tank Decommissioning
- Diesel Fuel Tank Cleaning
- Fuel Tank Telemetry
- Construction Site Fuel Delivery
- Technical Support
- Priority Contracts
- Waste Oil Collection
- Fuel Pump Repair
- Fuel Testing

About 123 Oil

123 Oil has a staggering experience of over 5 decades in delivering top-of-the-market fuel and oil related services to its clients. We stand apart from our competitors due to:

- Diverse and exceptional services
- Expert and knowledgeable team
- Agile and efficient logistics
- Fair and competitive prices
- Honest and clear communication

0121 308 6938 SALES@1230IL.CO.UK WWW.1230IL.CO.UK 0845 257 1377 Unit 8, South Staffs Terminal, Lynn Lane, Shenstone, Staffs, WS14 OED