



Crown Oil

Fuels and Lubricants

Biodiesel B100 CHP

Requirement	Method	CHP B100	EN14214
Fatty acid ethyl ester content	EN14103	min 96.5% (m/m)	min 96.5% (m/m)
Density @ 15° C	EN ISO 3675	872 - 878 kg / m ³	872 - 878 kg / m ³
Viscosity @ 40°C	EN ISO 3104	3.5 - 5.0 mm ² / s	3.5 - 5.0 mm ² / s
Flash point	EN ISO 3679	>120°C	>120°C
Cold Filter Plugging Point	EN 116	Max 10°C	Max -20°C to 0°C
Sulphur content	EN ISO 20846	Max 10mg/kg	Max 10mg/kg
Carbon Residue	EN ISO 10370	Max 0.5% (m/m)	Max 0.3% (m/m)
Cetane number	EN ISO 5165	Min 51.0	Min 51.0
Sulphated Ash content	ISO 3987	Max 0.02% (m/m)	Max 0.02% (m/m)
Water content	EN ISO 12937	max 350 mg/kg	max 500 mg/kg
Solid impurities content	EN 12662	Max 10 mg/kg	Max 24 mg/kg
Oxidation stability at 110°C	EN 14112	Min 4.0 hours	Min 6.0 hours
Acid Value	EN 14104	Max 0.50 Mg KOH/g	Max 0.50 Mg KOH/g
Iodine value	EN 14111	Max 120g/100g	Max 120g/100g
Linolenic acid ethyl ester content	EN14103	Max 12.0% (m/m)	Max 12.0% (m/m)
Polyene acid ethyl ester content (min. 4 double bonds)		Max 1% (m/m)	Max 1% (m/m)
Ethanol content	EN 14110	Max 0.20% (m/m)	Max 0.20% (m/m)
Monoacylglycerol content	EN 14105	Max 0.80% (m/m)	Max 0.80% (m/m)
Diacylglycerol content	EN 14105	Max 0.20% (m/m)	Max 0.20% (m/m)
Triacylglycerol content	EN 14105	Max 0.20% (m/m)	Max 0.20% (m/m)
Free glycerol content	EN 14105	Max 0.02% (m/m)	Max 0.02% (m/m)
Total glycerol content	EN 14105	Max 0.25% (m/m)	Max 0.25% (m/m)
Typical calorific value	DIN 51900-1/2/3	Min. 37.5 MJ/kg	Min. 35.0 MJ/kg

EN14214 requirements are shown for comparison. This is the Euro Standard for road fuel, but is widely used as the reference for power generation, as there is currently no Standard for this application. Certain requirements for road fuel (oxidation, CFPP) are not relevant to power generation.

Every batch of fuel is independently verified by a UKAS-accredited test laboratory to exceed the key requirements of EN14214 as applicable to power generation.