



## Technical Data Sheet

### Z Bio D B5 (B5 Biodiesel)

#### Description

Z Bio D B5 is a fuel product comprising up to five per cent of Z's B100 biodiesel manufactured in Auckland, blended with ordinary mineral diesel. The B100 biodiesel conforms to the New Zealand Engine Fuel Specifications Regulations for biodiesel and meets the specifications detailed in the European biodiesel specification EN14214.

Z Bio D B5 meets the same Engine Fuel Specifications Regulations in New Zealand as for ordinary diesel.

Generally all vehicle engine manufacturers accept that B5 biodiesel blends can be used in their vehicles with no modification.

#### Health & Safety

Z Bio D B5 is classified according to Hazardous Substances (Classifications) Regulation 2001 as 9.1B – Environmentally Hazardous Substance and 3.1D - Flammable liquid, Low Hazard. UN number for transport is UN3082.

Avoid contact with the skin and eyes, and breathing vapours or mists.

For further guidance on product health and safety refer to the appropriate Z Energy Safety Data Sheet.

#### Typical Physical Characteristics

Description	Units	Methods	Typical
Density @ 15°C	kg/L	D1298/D4052	0.845
Viscosity @ 40°C	mm <sup>2</sup> /s	D445	3.5
Ester content	%vol	EN14103	<5 %
Flash Point	°C	D93	75
Sulphur	mg/kg	D2622/D5453	5
Cetane Number	-	D614	>51
Water	mg/kg	D6304	100
Oxidation stability	g/m <sup>3</sup>	D2274	5
Total contamination	mg/L	IP440	5
Filterability Test	% mass	IP387	1.02
Copper Corrosion	-	D130	1a

These characteristics are typical of current production. While future production will conform to Z Energy and legislated specifications, variations in these characteristics may occur.