

# Opt-in Carbon Neutral Diesel 10

## Automotive Diesel Fuel

### Description



Viva Energy Opt-in Carbon Neutral Diesel 10 is a Climate Active certified product that has undergone rigorous carbon footprint analysis to achieve carbon neutral certification against the Australian Government's Climate Active Carbon Neutral Standard. The purchase of carbon offsets has been used to cancel out greenhouse gas emissions associated with the extraction, transportation, manufacture, supply and combustion of Opt-in Carbon Neutral Diesel 10, by investing in projects that reduce or remove emissions. There are no physical changes to the product so there are no changeover or operability concerns and the product can be used in accordance to applications and specifications as detailed below

Diesel 10 is a special purpose light distillate fuel for use in high speed diesel engines (i.e. those operating at greater than 800 rpm), in services involving frequent and relatively wide variations in loads and speeds. It is used in private automotive vehicles, commercial fleets (on and off road), marine and industrial applications.

Alternatively known as DIESEL CO2 NEUTRAL.

### Performance Features

Diesel 10 is formulated to deliver adequate lubricity, to help protect fuel pumps and injectors from excessive wear. The cloud point is controlled on a regional and seasonal basis for the purposes of delivering operability across Australia.

Shell Diesel 10 is an Ultra Low Sulphur Diesel fuel. The sulphur content is controlled to less than 10 mg/kg

Shell Diesel 10 specification meets and exceeds the US ASTM D975 specification and is equivalent to the European EN590 diesel specification.

### Applications

Diesel 10 is an Ultra Low Sulphur Diesel fuel designed for modern high-speed compression ignition engines. The diesel meets all the requirements of the Australian Fuel Quality Standards Act 2000 and has a maximum sulphur content of 10 ppm.

This fuel is suitable for use in modern engines that are fitted with Euro 5/6 or V/VI emission control systems.

## Health, Safety and Environment

Guidance on health and safety is available on the appropriate Safety Data Sheet which can be obtained from the Viva Energy Technical Help Desk or from [www.vivaenergy.com.au](http://www.vivaenergy.com.au)

## Storage

Drums of fuel should be stored in an upright position under cover protected from rain and direct sunlight, or with drum top covers to prevent ingress of water. Ensure buildings are well ventilated.

Product in unopened drums should be acceptable for use in a 24 month period. Product stored for longer than 24 months or in containers that have been opened should be checked to verify freedom from water, contamination or degradation.

## Specifications / Approvals / Recommendations

### Climate Active Carbon Neutral Product

Viva Energy Diesel 10 is manufactured to meet the specifications of:

Australian Fuel Quality Standards Act 2000
Fuel Standard (Diesel) Determination 2019
AS 3570 -1998 for Cold Flow Properties

### Typical Characteristics

Properties	Units	Methods	Diesel 10 Typical
Density @ 15°C	kg/m <sup>3</sup>	ASTM D1298 / D4052	840 (820-850 max)
Viscosity @ 40°C	mm <sup>2</sup> /s	ASTM D445	2.0-4.5
Flash Point	°C	ASTM D93	70 (61.5 min)
Sulphur	mg/kg	ASTM D2622/D5453	10 max
Cetane Index	-	ASTM D4737	49 (46 min)
Distillation - 95%	°C		360 max
Water	mg/kg	ASTM D6304	70 (200 max)
Ash	% mass	ASTM D482	0.02 (0.1 max)
Sediment	% mass	ASTM D473	0.002 (0.01 max)
Filterability Test	-	IP 387	1.01 (2.0 max)
Strong Acid Number	mg KOH/g	ASTM D664/D974	Nil
Total Acid Number	mg KOH/g	ASTM D664/D974	<0.1 (2.5 max)
Copper Corrosion	-	ASTM D130	1a
Lubricity (HFRR test)	µm	IP 450	400 (460 max)
Conductivity	pS/m	ASTM D2624	100 (50 min)
FAME Content	%v/v	EN14078 or declaration	0 (5.0 max)

### Technical Help Desk

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