Neutral Fuels

B100 BIOFUEL

WELCOME TO B100 NET ZERO BIOFUEL

Our flagship B100 biofuel makes a direct and tangible improvement to transportation fleets. The most important effect of using biofuel is that it alleviates climate change by reducing emissions of carbon dioxide and equivalents (CO_2e) to zero. Our B100 biofuel also offers a variety of cost savings and peerless fleet management methods and tools.

REDUCING

Twenty percent of the UAE'S carbon footprint comes from CO2e emitted by vehicles that use fossil fuel. Switching to B100 net zero biofuel immediately reduces this transportation carbon footprint to zero.

Neutral Fuels B100 reduces the amount of unburnt fuel per vehicle too, which has the effect of increasing fuel efficiency and further lowering emissions. It also burns cleaner than other fuels which reduces smog, soot and other tailpipe emissions by up to 50%.

Net zero is the balance between what is produced and what is reduced. In the case of biofuel, net zero applies to the amount of carbon the fuel emits and the amount by which it reduces carbon emissions.

And there's more to our net zero credentials than that. The raw material we use to make our biofuel (used cooking oil) is carbon neutral as it is a waste product, and even our production process is close to net zero because it uses no water and very little energy. When we talk about net zero biofuel, we really mean it.

SAVING

Net zero biofuel doesn't just support corporate decision-making from the heart, but from the head too because saving costs is important to every business. Built-in benefits include:

- Reduced maintenance costs – B100 biofuel is powerful enough to break down and remove carbon deposits that build up in diesel engines. Without these deposits, fuel injector valves don't get clogged up, engine performance is improved, there are fewer dirty emissions, and fuel consumption is further improved.
- Reduced replacement costs for parts and engines – B100 biofuel actively prolongs engine life. It lubricates modern fuel injection parts which improves metal-to-metal contact, reducing wear and prolonging engine life.

MANAGING

At Neutral Fuels we focus obsessively on technology because we understand the power it has to improve business. Our B100 biofuel is surrounded by game-changing technology that we've developed to give businesses everything they need to know about their transportation fleets.

This includes a full audit through the supply chain to meet requirements for performance metrics and purchasing management while reducing shrinkage. It also includes an artificial intelligence engine embedded in our methodology, a cloud-based data portal, and handheld apps and IoT sensors reporting to our control room. Together, these tools provide operational and cost efficiencies that simply aren't available anywhere else.

COMPATIBILITY

Neutral Fuels B100 is fully compatible with diesel engines manufactured worldwide. There is no need for any engine modification. Modern diesel engines are capable of running on 100% pure biodiesel (B100) in all but arctic temperatures. Switching from petro diesel will only improve engine performance and fuel economy.

QUALITY

Neutral Fuels B100 exceeds European Standard EN 14 214 and American Standard ASTM D6751.

In April 2020 Neutral Fuels became the first biofuel company to successfully attain certification under the UAE's new Emirates Authority for Standardization and Metrology (ESMA) biodiesel quality standard UAE.S 5023:2018, satisfying the standards required by UAE laws, procedures and codes of conduct. ESMA is the federal entity responsible for setting standards for quality control and the UAE is the first country in the Middle East to set its own standard for biodiesel.

Based on German technology and British engineering, quality has always been at the forefront of our operations to the extent that we have set an unprecedented high standard for the biofuel industry.

In addition, we use state-of-the-art European refinery equipment and European chemicals to keep our biodiesel clean and safe, and our external auditing is meticulous.

We pay attention to provenance, using only high quality feedstock (in our case used cooking oil) to ensure the excellent quality of our fuel.

KEEPING IT LOCAL TO FURTHER REDUCE CARBON EMISSIONS

Our biofuel production is always a city level operation. We call it local/local/local: producing fuel in our local biorefinery from local waste for use by local customers.

Our feedstock supply and our customers are local to our biorefineries. We use only feedstock that has already served its core purpose so right from the start of the process we have a 100% net zero carbon footprint and we don't add to global deforestation.

Unless every one of us is helping to save our planet, nothing else we do will matter because Earth is the only home we have. B100 biofuel makes a significant contribution to ensuring the survival of our species, one net zero drop at a time. Join us!

info@neutralfuels.com | www.neutralfuels.com
Follow us on Facebook, Instagram and LinkedIn

Neutral Fuels

B100 SPECIFICATION

Property	Unit	Specification	Test method
Ester content	% m/m	96.5	EN 14103
Linoleic acid methyl esters	% m/m	12 max	EN 14103
Polyunsaturated methyl esters	% m/m	1 max	EN 14103, EN 15779
Density @ 15°C	kg/m³	860 to 900	EN ISO 3675, EN ISO 12185
Viscosity @ 40°C	mm²/s	3.5 to 5.0	EN ISO 3104
Sulfur content	mg/kg	10 max	EN ISO 20846, EN ISO 20884
Cetane number	-	51 min	EN ISO 5165
Total contamination	mg/kg	24 max	EN 12662
Oxidation stability @ 110°C	hours	8 min	EN 14112
Sulfated ash content	% m/m	0.02 max	EN ISO 3987
Water content	mg/kg	500 max	EN ISO 12937
Copper band corrosion (3 hours @ 50°C)	rating	Class 1	EN ISO 2160
Acid value	mg KOH/g	0.5 max	EN 14104
Iodine value	-	120 max	EN 14111
Methanol content	% m/m	0.20	EN 14110
Flash point	°C	101°C min	ISO 3679
Free glycerol	% m/m	0.02 max	EN 14105/EN 14106
Total glycerol	% m/m	0.25 max	EN 14105
Monoglyceride content	% m/m	0.7 max	EN 14105
Diglyceride content	% m/m	0.2 max	EN 14105
Triglyceride content	% m/m	0.2 max	EN 14105
Group I metals (Na & K)	mg/kg	5 max	EN 14108, EN 14109, EN 14538
Group II metals (Ca & Mg)	mg/kg	5 max	EN 14538
Phosphorus content	mg/kg	4 max	EN 14107