



www.nanobiofuel.com | biodiesel1@nanoshel.com

Biodiesel is a renewable, biodegradable fuel manufactured domestically from vegetable oils, animal fats, or recycled restaurant grease. Biodiesel meets both the biomass-based diesel and overall advanced biofuel requirement of the Renewable Fuel Standard. Renewable diesel, also called “green diesel,” is distinct from biodiesel.



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Bio Diesel

Biodiesel fuel is a much a lot more environmentally friendly choice to the "petrodiesel" most diesel cars run on. There is also B100, or the "biodiesel" most often discussed in environmental circles, is made of 100 percent vegetable or biological sources.

Hence, biodiesel is a renewable, biodegradable, nontoxic and environmentally friendly biofuel. Biodiesel has similar properties to diesel, which is selectively used as an alternative fuel for diesel engines.

TECHNICAL SPECIFICATION

Product Name	:	BIODIESEL
Stock No	:	NS6130-12-001963
Purity	:	B100
pH Value	:	6.5
Water Content	:	400mg/kg
Flash Point	:	130 °C
Acid Value	:	2.26mgKOH/gm
Density	:	850kg/m ³
Free fatty acid	:	0.5%wt(%by mass)

Bio Diesel



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Biodiesel Blends

As Transportation Fuel

Biodiesel B-100 – 30%
Petro Diesel – 70%

As per
Govt. of India
Advisory

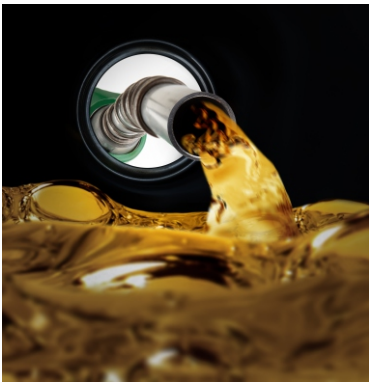
As Gas fuel for Sweet shops & Restaurant Owners

Biodiesel B-100 – 100%

Usage in DG Sets / Industrial unit

Biodiesel B-100 – 30%
Petro Diesel – 70%

As per
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Pure Biodiesel fuel B100

B100, or pure biodiesel, is different from blends. Biodiesel can be used in pure form (B100) or may be blended with petroleum diesel at any concentration in most injection pump diesel engines. B-100 as pure biodiesel is different from blends. A stranded diesel engine can run on pure biodiesel without modification.

Biodiesel is a diesel replacement fuel for use in CI engines. Biodiesel has been shown to reduce the emissions of hydrocarbon, carbon monoxide and particulate when used alone as it also carries excellent lubricity and is typically low in sulfur content. Biodiesel has similar properties to diesel, which is selectively used as an alternative fuel for diesel engines. Two important fuel properties for diesel engines are its cetane number and fuel viscosity.



Biodiesel vs Petroleum Diesel



- Biodiesel has higher lubricity (it is more "slippery") than petroleum diesel.
- Biodiesel contains practically no sulfur than petroleum diesel.
- Biodiesel has higher oxygen content (usually 10 to 12 percent) than petroleum diesel.
- Biodiesel is more chemically active as a solvent than petroleum diesel.
- Biodiesel is much less toxic than petroleum diesel.



Advantages of Biofuel

- CO2 reduction upto 90% (scientifically proven carbon reducer)
- The most diverse fuel on the planet
- 100% fossil free diesel alternative-renewable and sustainable diesel
- Cleaner air and increased quality of life in cities, odorless, less air particles and reduced engine noise.
- Biodegradable
- Approved by leading vehicle manufactures
- Can be used in all diesel engines

Application



As biofuel is known as an alternative to diesel fuel, there are other uses. Biodiesel engines due to the better fuel economy have been widely used in automotive area. B100 engine's operating condition was as good on biodiesel as on diesel fuel, undergoing the usual rate of wear without sacrificing mechanical reliability and durability.

- Transportation
- Railway usage
- Aircraft use
- Biodiesel in generators
- Used in boilers
- Energy Generation
- Lubricate



Applications

Biodiesel can be used with some precautions in diesel engines in many sectors including on-road vehicles, off-road mobile equipment and vehicles and stationary equipment.



On-road:

- Fleet vehicles
- Heavy-duty trucks
- School buses
- Urban transit buses

Off-road:

- Agricultural equipment
- Construction equipment
- Forestry equipment
- Locomotives (trains)
- Marine vessels
- Mining equipment
- Tractors
- JCB's



Biodiesel

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Bio Diesel

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