

Clean Cities

BioDiesel
USA 



FOR ALL THE RIGHT REASONS



ENVIRONMENT ENERGY SECURITY ECONOMY

Who wants to breathe Sulfur anyway: it only causes lung damage and promotes cancer.

For every gallon of Fossil Diesel replaced with B20 BioDiesel
The Fuel has 30% less hydrocarbons and 20% less carbon monoxide
BioDiesel B100 produces 50% less ozone-forming hydrocarbons
and hardly any sulfur dioxide.

The Department of Energy states that the combined production
and use of BioDiesel gives off 80% fewer Co2 emissions.

BioDiesel is less toxic than table salt and
biodegrades as fast as sugar.



Proposal

BioDieselUSA proposes to organize supply of various blends of BioDiesel and Ethanol to Washington DC fleets.

Responding to the Clean Cities initiatives we look forward to preparing a plan to achieve your green targets.

To accurately present a detailed implementation strategy and FOB costing; BioDieselUSA requests

Access to Fleet Managers to ascertain

- 1) Volume of fuel
- 2) Distances to drop tanks or blend stations
- 3) Number, size, type and age of vehicles

List of current fuel sources to

- 1) Analyse timescale to insert biodiesel into current supply
- 2) Recommend any additional infrastructure required

Project
Clean
Cities
Washington DC

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ENVIRONMENTAL NEEDS

HUMAN DRIVEN



Product Exceeds ASTM Standards

Test	ASTM Limit	REG-9000 Limit		
Free Glycerine	0.020 %mass, max	0.014 %mass, max	Exceeds ASTM Limits	
Total Glycerine	0.24 %mass, max	0.16 %mass, max		
Water and Sediment	0.05 %vol, max	0.02 %vol, max		
Acid number	0.5 mg KOH/g, max	0.4 mg KOH/g, max		
Visual Inspection	2, max	1, max		
Relative Density @ 15 c	Report	0.85-0.90		
Kinematic Viscosity @ 40 c	1.9 - 6.0 mm ² /sec	3.8 - 5.0 m ² m /sec		
Sulfur: S 15 Grade	15 ppm, max	10 ppm, max		
S 500 Grade	500 ppm, max	10 ppm, max		
Copper Strip Corrosion	No. 3, max	No. 1, max		
Na and K, combined	5.0 ppm, max	1.5 ppm, max		
Ca and Mg, combined	5.0 ppm, max	1.0 ppm, max		
Monoglycerides	Not required	0.50 %mass, max		Testing Beyond Requirements
Diglycerides	Not required	0.20 %mass, max		
Triglycerides	Not required	0.15 %mass, max		
Moisture (Karl-Fischer)	Not required	400 ppm, max		
Cold Soak Filtration Time	Not required	200 sec		
Oxidation Stability*	3.0 hrs, min	3.0 hrs, min		
Cetane	47, min	47, min		
Alcohol Control (A): Flashpoint	130°C, min	130°C, min		
Alcohol Control (B): methanol	0.2 %vol, max	0.2 %vol, max		
Phosphorous	0.001 %mass, max	0.001 %mass, max		
Carbon residue, 100% sample	0.050 %mass, max	0.050 %mass, max		
Sulfated Ash	0.020 %mass, max	0.020 %mass, max		
Distillation at 90% Recovered	360°C, max	360°C, max		

BioDiesel
USA

BioDieselUSA.info

Reduce

Conventional fuel use
Greenhouse emissions
Foreign oil dependence

Create

US green jobs and independence
Cleaner future for our children
Links with stakeholders in transport



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Bringing Alternative Energy to Washington DC

REG 9000 BioDiesel Products

REG-9000-1

Cloud Point 0-2°C
 (32-36°F)
Oxidation Stability 3-6 hr
Cetane 47-50

Exceeding ASTM specifications
Millions of gallons available
Transport via rail and truck
Available with the minimal lead time
and best possible prices

REG-9000-5

Cloud Point 4-6°C
 (39-43°F)
Oxidation Stability 5-8 hr
Cetane 50-53

REG-9000-10

Cloud Point 8-12°C
 (46-54°F)
Oxidation Stability 7-10hr
Cetane 53-59

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