



<b>Ultra Low Sulfur Diesel: 0-5% Renewable Diesel</b>			
<b>Product Property</b>	<b>ASTM Method</b>	<b>Minimum</b>	<b>Maximum</b>
Flash Point (deg F)	D93	125	
Distillation 90% vol recovered (deg F)	D86	540*	640
Kinematic Viscosity (mm <sup>2</sup> /S @ 40C)	D445	1.9*	4.1
Ash % mass	D482		0.01
Sulfur (ppmwt)	D5453		15
Corrosion (Cu)	D130		1
Cetane number/Index	D613/D4737B	40	
Ramsbottom carbon residue on 10% distillation residue (% mass)	D524		0.35
Lubricity, HFRR @60C, (um)	D6079		520
Cloud Point	D2500/Alternate		None, however see Note 1 for regional pipeline Cloud Point maximums at refinery origin
Pour Point	D0097/Alternate		None, however see Note 2 for regional pipeline Cloud Point maximums at refinery origin
CFPP	D6371	** See Note	
* When cloud point less than -12C is specified, as could be the case in the winter, The min flash point is 100F, the min viscosity shall be 1.7mm <sup>2</sup> /S and the minimum 90% recovery temp shall be waived.			
** If marketed as a winterized diesel, then a CFPP temperature at or below the 10 <sup>th</sup> percentile minimum ambient air temperature established by ASTM D975, is targeted for the terminal location.			

**NOTE 1:**

Cloud Point specification maximums apply to shipments via Common Carrier Pipelines per their fungible fuel requirements:

Colonial: Winter (Aug 1 - March 14) +15°F (-9°C) and Summer (March 15 - July 31) +20°F (-7°C)

Explorer: Winter (Sept 1 - Mar 31) +15°F (-9°C) and Summer (April 1 - Aug 31) +20°F (-7°C)

<b>ULSD fuel properties (0-5% Renewable Diesel) for end consumer</b>	<b>Revision 3</b>	<b>Page 1 of 1</b>
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*Olympic: Winter (Nov 1 - Feb 28) +14°F (-10°C) and Summer (March 1 - October 31) +24°F (-4°C)*

*Plantation: Winter (Sept 1 - March 31) +15°F (-9°C) and Summer (April 1 - Aug 31) +20°F (-7°C)*

*Buckeye: Winter (Sept 1 - March 31) +15°F (-9°C) and Summer (April 1 - Aug 31) +20°F (-7°C)*

*Magellan: Winter (Sept 1 - March 31) +14°F (-10°C) and Summer (April 1 - August 31) +20°F (-7°C)*

**NOTE 2:**

*Pour Point specification maximums apply to shipments via Common Carrier Pipelines per their fungible fuel requirements:*

*Colonial: Winter (Aug 1 - March 14) +0°F (-18°C) and Summer (March 15 - July 31) +10°F (-12°C)*

*Explorer: Winter (Sept 1 - Mar 31) +0°F (-18°C) and Summer (April 1 - Aug 31) +10°F (-12°C)*

*Olympic: No pour point spec effective 12/19/2012*

*Plantation: Winter (Sept 1 - March 31) +0°F (-18°C) and Summer (April 1 - Aug 31) +10°F (-12°C)*

*Buckeye: Winter (Sept 1 - March 31) +0°F (-18°C) and Summer (April 1 - Aug 31) +10°F (-12°C)*

*Magellan: Winter (Sept 1 - March 31) +0°F (-18°C) and Summer (April 1 - August 31) +10°F (-12°C)*

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