



# PETER CREMER

NORTH AMERICA

NORTH AMERICA, LP

**PETER CREMER NORTH AMERICA, LP**

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**NEXSOL BD-0100 BIODIESEL**  
**ASTM D 6751-08 (B100)**

Biodiesel is defined as the mono alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, for use in compression-ignition (diesel) engines. This specification is for pure (100%) biodiesel prior to use or blending with diesel fuel.

PROPERTY	ASTM METHOD	LIMITS	UNITS
Flash Point	D93	130.0 min.	Degrees C
Water & Sediment	D2709	0.050 max.	% vol.
Kinematic Viscosity, 40 C	D445	1.9 - 6.0	mm <sub>2</sub> /sec.
Sulfated Ash	D874	0.020 max.	% mass
Total Sulfur	D5453	15 max.	ppm
Copper Strip Corrosion	D130	No. 3 max.	—
Cetane	D613	47 min.	—
Cloud point	D2500	Report to Customer	Degrees C
Carbon Residue 100% sample	D4530**	0.050 max.	% mass
Acid Number	D664	0.50 max.	mg KOH/gm
Free Glycerin	D6584	0.020 max.	% mass
Total Glycerin	D6584	0.240 max.	% mass
Phosphorous Content	D4951	0.001 max.	% mass
Distillation temperature, Atmospheric equivalent Temperature, 90% recovered	D1160	360 max.	Degrees C
Calcium and Magnesium	UOP 389	5ppm max. combined	ppm
Oxidative Stability, 110°	D2274	3 min.	hours
Sodium & Potassium Metals	UOP391-91	5ppm max. combined	ppm
Visual Appearance	D4176 Proc. 2	2 max.	—
Cold Soak Filtration	***D6751	360 max.	—

\*To meet special operating conditions, modifications of individual limiting requirements may be agreed upon between purchaser, seller and manufacturers.

\*\*The carbon residue shall run on the 100% sample. A considerable amount of experience exists in the US with a 20% blend of biodiesel with 80% diesel fuel (B20). Although biodiesel (B100) can be used, blends of over 20% biodiesel with diesel fuel should be evaluated on a case by case basis until further experience is available.

\*\*\*B100 (or B99.9) intended for blending into diesel fuel that is expected to give satisfactory vehicle performance at fuel temperatures at or below -12°C shall comply with a cold soak filterability limit of 200 seconds maximum.