

D Grade High Cetane #2 Ultra Low Sulfur Diesel Fuel Specifications

Product Property	Method	Minimum	Maximum	Deliveries ^{1/}
Gravity, °API	D287	Report		
Color	D1500		2.0	2.5
Distillation ^{5/}	D86, D2887			
IBP, °F		340		
50% Recovered, °F		460		
90% Recovered, °F		540	640	
Copper Corrosion	D130		1	
Cetane				
Cetane Number	D613	48		
Or				
Cetane Index, A or B	D4737	48		
Cetane Index ^{2/}	D976	40		
Flash Point, °F	D93	140		140
Stability				
Thermal, % reflectance (W or Y)	D6468 (W)	75		
	D6468 (Y)	82		
Aging Period (Minutes)	D6468	90		
Carbon Residue on 10% Bottoms, wt %	D524		0.20	
Cloud Point, °F ^{3/}	D2500			
Pour Point, °F ^{3/}	D97			
Viscosity, cSt at 104 °F	D445	1.9	4.1	
Ash, wt %	D482		0.01	
Haze Rating ^{4/}	D4176		2	3
NACE Corrosion	TM0172, D7548	B+		
Sulfur, ppm	D2622		11	

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Foot Notes:

- 1/ Delivered products meet all applicable requirements at time and place of delivery
- 2/ ASTM D976 result is required for ultra-low sulfur diesel fuel to demonstrate aromatics compliance per 40 CFR 1090.305.

3/	<u>Month</u>	<u>Pour Point °F, max</u>	<u>Cloud Point °F, max</u>
	January	0	+14
	February	0	+14
	March	0	+14
	April	+10	+20
	May	+10	+20
	June	+10	+20
	July	+10	+20
	August	0	+14
	September	0	+14
	October	0	+14
	November	0	+14
	December	0	+14

- 4/ Compliance with ASTM D4176 will be determined using Procedure 2 at 77 °F or tank temperature at the time of sampling, whichever is lower.
- 5/ ASTM D2887 Simulated Distillation results must be reported after D86 correlation.

Notes:

- D-grade complies with the ULSD standards of 40 CFR 1090.305
- D-grade is designated as ULSD in accordance with 40 CFR 1090.1015

Additional Requirements:

Biodiesel: The presence of biodiesel is prohibited.

Dyes: D-grade shipments may not be dyed.