

X1X Grade Ultra Low Sulfur Diesel Fuel for Export Specifications

(This fuel is for export from the United States only)

Product Property	Method	Minimum	Maximum
Gravity, °API	D4052, 1298		Report
Distillation ^{3/}	D86, D2887		
Initial Boiling Point			Report
10% Recovered, °F			527
50% Recovered, °F			Report
90% Recovered, °F		540	653
End Point °F			Report
Flash Point, °F	D93		135
Pour Point, °F	D97		
March-October			+32
November-February			+23
Cloud Point, °F ^{4/}	D2500		Report
Cetane			
Cetane Number	D613	45	
Or			
Cetane Index, A or B	D976, D4737	45	
Sulfur, ppm	D2622		12
Copper Corrosion	D130		1
Carbon Residue on 10% Bottoms, wt %	D524		0.35
Water and Sediment, vol%	D2709		0.05
Viscosity, cSt at 104 °F	D445	1.9	4.1
Ash, wt %	D482		0.01
Color	D1500		2.5
Aromatics, vol %	D1319, D5186		35
Stability			
Thermal, % reflectance (W or Y)	D6468 (W)	75	
	D6468 (Y)	82	
Aging Period (Minutes)	D6468	90	
Or			
Oxidation, mg/100 ml	D2274		2.5
Haze Rating ^{2/}	D4176		2
NACE Corrosion	TM0172, D7548	B+	



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Foot Notes:

- 1/ Delivered products meet all applicable requirements at time and place of delivery and the product transfer documents will include the sulfur per-gallon standard that the fuel meets per 40 CFR 1090.1115(a)(1) and an accurate and clear designation of the fuel per 40 CFR 1090.1115(a)(2).
- 2/ Compliance with ASTM D4176 will be determined using Procedure 2 at 77 °F or tank temperature at the time of sampling, whichever is lower.
- 3/ ASTM D2887 Simulated Distillation results must be reported after D86 correlation.
- 4/ The maximum temperature must be less or equal to the minimum environmental temperature expected.

Notes:

- X1X complies with the ULSD standards of 40 CFR 1090.305.
- X1X is diesel fuel for export from the United States only per 40 CFR 1090.1105
- X1X is designated as ULSD in accordance with 40 CFR 1090.1115.
- X1X may not be co-mingled with any domestic diesel fuels

Additional Requirements:

Biodiesel: The presence of biodiesel is prohibited.

Dyes: X Grade shipments may not be dyed.