

Y Grade No. 1 Fuel Oil Specifications

Product Property	Test Method	Origin		Deliveries ^{1/}
		Minimum	Maximum	
Gravity, °API	D287	35.0		
Flash Point, °F	D56	125	160	115
Pour Point, °F	D97		-25	
Carbon Residue on 10% Bottoms, %	D524		0.15	
Sulfur, ppm ^{2/}	D2622		*10	
Mercaptan Sulfur, wt % ^{3/}	D3227		0.004	
Copper Corrosion	D130		1	
Cetane				
(1) Cetane Number	D613	40.0		
OR (2) Cetane Index, procedure A	D4737	40.0		
Cetane Index ^{4/}	D976	40		
Distillation	D86			
10% Recovered, °F			419	
90% Recovered, °F			550	
OR				
Simulated Distillation	D4814			
10% Recovered, °F			383	
90% Recovered, °F			580	
Viscosity at 104 °F, cSt	D445	1.3	2.1	
Ash, wt %	D482		0.01	
Haze Rating ^{5/}	D4176		2	3
NACE Corrosion	TM0172	B+		

- 1/ Delivered products meets all applicable requirements at time and place of delivery.
- 2/ All results provided must use an EPA qualified instrument.
*Sulfur limit, 11 ppm for interconnecting pipelines.
- 3/ Mercaptan Sulfur determination is waived if the result of the Doctor Test ASTM D4952 is negative.
- 4/ ASTM D976 data is required for low sulfur fuel oils to demonstrate aromatics compliance per the EPA.
- 5/ Compliance with ASTM D4176 will be determined using Procedure 2 at 77 °F or tank temperature at the time of sampling, whichever is lower.

Additional Requirements:

Biodiesel: The use of any biodiesel fuel as a blending component is prohibited.

Dyes: Y Grade shipments may not be dyed.