

**§ 1065.703**

[70 FR 40516, July 13, 2005, as amended at 73 FR 37339, June 30, 2008; 73 FR 59341, Oct. 8, 2008; 75 FR 23057, Apr. 30, 2010]

**§ 1065.703 Distillate diesel fuel.**

(a) Distillate diesel fuels for testing must be clean and bright, with pour and cloud points adequate for proper engine operation.

(b) There are three grades of #2 diesel fuel specified for use as a test fuel. See the standard-setting part to determine which grade to use. If the standard-setting part does not specify which grade to use, use good engineering judgment

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to select the grade that represents the fuel on which the engines will operate in use. The three grades are specified in Table 1 of this section.

(c) You may use the following non-metallic additives with distillate diesel fuels:

- (1) Cetane improver.
- (2) Metal deactivator.
- (3) Antioxidant, dehazer.
- (4) Rust inhibitor.
- (5) Pour depressant.
- (6) Dye.
- (7) Dispersant.
- (8) Biocide.

TABLE 1 OF § 1065.703—TEST FUEL SPECIFICATIONS FOR DISTILLATE DIESEL FUEL

Item	Units	Ultra low sulfur	Low sulfur	High sulfur	Reference procedure <sup>1</sup>
Cetane Number		40-50	40-50	40-50	ASTM D613-05.
Distillation range: Initial boiling point	°C	171-204	171-204	171-204	ASTM D86-07a.
10 pct. point		204-238	204-238	204-238	
50 pct. point		243-282	243-282	243-282	
90 pct. point		293-332	293-332	293-332	
Endpoint		321-366	321-366	321-366	
Gravity	° API	32-37	32-37	32-37	ASTM D4052-96e01.
Total sulfur, ultra low sulfur	mg/kg	7-15			See 40 CFR 80.580.
Total sulfur, low and high sulfur	mg/kg		300-500	800-2500	ASTM D2622-07 or alternates as allowed under 40 CFR 80.580.
Aromatics, min. (Remainder shall be paraffins, naphthalenes, and olefins)	g/kg	100	100	100	ASTM D5186-03.
Flashpoint, min	°C	54	54	54	ASTM D93-07.
Kinematic Viscosity	cSt	2.0-3.2	2.0-3.2	2.0-3.2	ASTM D445-06.

<sup>1</sup>ASTM procedures are incorporated by reference in § 1065.1010. See § 1065.701(d) for other allowed procedures.

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[70 FR 40516, July 13, 2005, as amended at 73 FR 37340, June 30, 2008; 73 FR 59341, Oct. 8, 2008; 75 FR 23057, Apr. 30, 2010]

**§ 1065.705 Residual and intermediate residual fuel.**

This section describes the specifications for fuels meeting the definition of residual fuel in 40 CFR 80.2, including fuels marketed as intermediate fuel.

Residual fuels for service accumulation and any testing must meet the following specifications:

(a) The fuel must be a commercially available fuel that is representative of the fuel that will be used by the engine in actual use.

(b) The fuel must meet the specifications for one of the categories in the following table: