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An American National Standard



Designation: 237/87

Standard Test Method for Research Octane Number of Spark-Ignition Engine Fuel¹

This standard is issued under the fixed designation D 2699; the number immediately following the designation indicates the year of original adoption or, in the case of revisions, the year of last revision. A number in parentheses indicates the year of last approval. A superscript sign (1) indicates an editorial change since the last revision or approval.

1. Scope

1.1 This laboratory test method covers the quantitative determination of the knock rating of liquid spark-ignition engine fuel in terms of Research O.N., except that this test method may not be applicable to fuel and fuel components that are primarily oxygenates.² The sample fuel is tested using a standardized single cylinder, four-stroke cycle, variable compression ratio, carbureted, CFR engine run in accordance with a defined set of operating conditions. The O.N. scale is defined by the volumetric composition of PRF blends. The sample fuel knock intensity is compared to that of one or more PRF blends. The O.N. of the PRF blend that matches the K.I. of the sample fuel establishes the Research O.N.

1.2 The O.N. scale covers the range from 0 to 120 octane number but this test method has a working range from 40 to 120 Research O.N. Typical commercial fuels produced for spark-ignition engines rate in the 88 to 100 Research O.N. range. Testing of gasoline blend stocks or other process stream materials can produce ratings at various levels throughout the Research O.N. range.

1.3 The values of operating conditions are stated in SI units and are considered standard. The values in parentheses are the historical inch-pound units. The standardized CFR engine measurements continue to be in inch-pound units only because of the extensive and expensive tooling that has been created for this equipment.

1.4 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. For specific hazard statements, see Sections 8, 13.4.1, 14.5.1, 15.6.1, Annex A1, A2.3.9, A2.4.8, A3.2.7.2(7), A4.2.3.1, A4.2.3.3(6) and (9).

¹ This test method is under the jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02-01 on Combustion Characteristics.

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² Motor O.N., determined using Test Method D 2700, is a comparative method to provide a similar but typically lower octane rating under more severe operating conditions.

A4.3.5, X2.3.7, X3.2.3.1, X3.3.4.1, X3.3.9.3, X3.3.11.4, and X3.5.1.8.

2. Referenced Documents

2.1 ASTM Standards:

- D 1193 Specification for Reagent Water³
- D 1744 Test Method for Water in Liquid Petroleum Products by Karl Fischer Reagent⁴
- D 2268 Test Method for Analysis of High-Purity *n*-Heptane and Isooctane by Capillary Gas Chromatography⁵
- D 2360 Test Method for Trace Impurities in Monocyclic Aromatic Hydrocarbons by Gas Chromatography⁶
- D 2700 Test Method for Motor Octane Number of Spark-Ignition Engine Fuel⁷
- D 2885 Test Method for Research and Motor Method Octane Ratings Using On-Line Analyzers⁸
- D 3116 Test Method for Trace Amounts of Lead in Gasoline⁹
- D 3257 Test Method for Lead in Gasoline by Atomic Absorption Spectrometry¹⁰
- D 3703 Test Method for Peroxide Number of Aviation Turbine Fuels¹¹
- D 4057 Practice for Manual Sampling of Petroleum and Petroleum Products¹²
- D 4173 Terminology Relating to Petroleum, Petroleum Products, and Lubricants¹³
- D 4177 Practice for Automatic Sampling of Petroleum and Petroleum Products¹⁴
- D 4814 Specification for Automotive Spark-Ignition Engine Fuel¹⁵
- E 1 Specification for ASTM Thermometers¹⁶
- E 456 Terminology Relating to Quality and Statistics¹⁷

³ Annual Book of ASTM Standards, Vol. 11.00.

⁴ Annual Book of ASTM Standards, Vol. 05.01.

⁵ Annual Book of ASTM Standards, Vol. 05.04.

⁶ Annual Book of ASTM Standards, Vol. 05.05.

⁷ Deleted, see 1999 Annual Book of ASTM Standards, Vol. 05.02.

⁸ Annual Book of ASTM Standards, Vol. 05.02.

⁹ Annual Book of ASTM Standards, Vol. 14.00.

¹⁰ Annual Book of ASTM Standards, Vol. 14.00.

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