



Designation: D 6201 – 01

An American National Standard

Standard Test Method for Dynamometer Evaluation of Unleaded Spark-Ignition Engine Fuel for Intake Valve Deposit Formation¹

This standard is issued under the fixed designation D 6201; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method covers an engine dynamometer test procedure for evaluation of intake valve deposit formation of unleaded spark-ignition engine fuels. This test uses a Ford Ranger 2.3 L four-cylinder engine. The following details the procedure, hardware, and operations used for this test.

1.2 The ASTM Test Monitoring Center (TMC)² is responsible for engine test stand certification as well as issuance of information letters after test method modifications are approved by Subcommittee D02.A and Committee D02. Users of this test method shall request copies of recent information letters from the TMC to ensure proper conduct of the test method.

1.3 The values stated in SI units are to be regarded as the standard. Approximate inch-pound units are shown in parenthesis for information.

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 applicability of regulatory limitations prior to use.* Specific precautionary statements are given throughout this test method.

1.5 This test method is arranged as follows:

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2. Referenced Documents

2.1 ASTM Standards:

- D 86 Test Method for Distillation of Petroleum Products at Atmospheric Pressure³
- D 235 Specification for Mineral Spirits (Petroleum Spirits) (Hydrocarbon Dry Cleaning Solvents)⁴
- D 287 Test Method for API Gravity of Crude Petroleum and

¹ This test method is under jurisdiction of ASTM Committee D02 on Petroleum Products and Lubricants and is the direct responsibility of Subcommittee D02.A on Gasoline and Oxygenated Fuels.

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² ASTM Test Monitoring Center, 6555 Penn Avenue, Pittsburgh, PA 15206-4489.

³ Annual Book of ASTM Standards, Vol. 05.01.

⁴ Annual Book of ASTM Standards, Vol. 06.04.