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An American National Standard
Method 6012.6—Federal Test
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Standard Test Method for Knock Characteristics of Aviation Gasolines by the Supercharge Method¹

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¹ NOTE—Paragraphs A1.1.2, A2.10, and Footnote 5 were corrected editorially in October 2001.

1. Scope

1.1 This test method covers the determination of the knock-limited power, under supercharge rich-mixture conditions, of fuels for use in spark-ignition reciprocating aircraft engines, in terms of ASTM supercharge octane or performance number. By operational considerations, this test method is restricted to testing fuels of 85 ASTM supercharge octane number and over.

1.2 The values stated in inch-pound units are to be regarded as the standard. The values in parentheses are for information only.

1.3 *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.* Specific precautionary statements are given in Annex A7.

2. Referenced Documents

2.1 ASTM Standards:

D 1368 Test Method for Trace Concentrations of Lead in Primary Reference Fuels²

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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