



Designation: D 2782 – 012

An American National Standard

240/84

Standard Test Method for Measurement of Extreme-Pressure Properties of Lubricating Fluids (Timken Method)¹

This standard is issued under the fixed designation D 2782; 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. ~~This test method was adopted as a joint ASTM-IP Standard.~~

~~This test method has been approved by the sponsoring committees and accepted by the cooperating societies in accordance with established procedures.~~

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.L0 on Industrial Lubricants.

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1. Scope *

1.1 This test method covers the determination of the load-carrying capacity of lubricating fluids by means of the Timken Extreme Pressure Tester.

NOTE 1—This test method is suitable for testing fluids having a viscosity of less than about 5000 cSt (5000 mm²/s) at 40°C. For testing fluids having a higher viscosity, refer to Note 4.5 in 9.1.

1.2 The values stated in SI units are to be regarded as standard. Because the equipment used in this test method is available only in inch-pound units, SI units are omitted when referring to the equipment and the test specimens.

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 7.1, 7.2, 8.1, 8.2, 9.4, and ~~10.1~~, 9.9.

2. Referenced Documents

2.1 ASTM Standards:

~~D-235 Specification 2509 Test Method for Mineral Spirits (Petroleum Spirits) (Hydrocarbon Drycleaning Solvents) Measure-~~
~~ment of Load-Carrying Capacity of Lubricating Grease (Timken Method)²~~

~~D-329 Specification for Acetone²~~

~~D-2509 Test Method for Measurement of Extreme Pressure Properties of Lubricating Grease (Timken Method)³~~

~~D 4175 Terminology Relating to Petroleum, Petroleum Products, and Lubricants³~~

² Annual Book of ASTM Standards, Vol 06.04, 05.01.

³ Annual Book of ASTM Standards, Vol 05.01².

*A Summary of Changes section appears at the end of this standard.