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Standard Test Methods for Fluid Resistance of Gasket Materials¹

This standard is issued under the fixed designation F 146; 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 standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 These test methods cover the determination of the effect on physical properties of nonmetallic gasketing materials after immersion in test fluids. The types of materials covered are Type 1, Type 2, Type 3, and Type 7 as described in Classification F 104. These test methods are not applicable to the testing of vulcanized rubber, a procedure that is described in Test Method D 471. It is designed for testing specimens cut from gasketing materials or from finished articles of commerce. These test methods may also be used as a pre-treatment for Multi-Layer Steel, MLS, or Metal Layer Gasket materials adhesion testing per Test Method D3359. The pre-treatment of MLS or Metal Layer Gasket materials pertains only as a pre-cursor to the adhesion test. Other physical property tests described in this standard are not applicable to MLS or Metal Layer Gasket materials.

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

1.3 Refer to the current Material Safety Data Sheet (MSDS) and any precautionary labeling provided by the supplier of any materials referred to in these test methods.

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.*

¹ These test methods are under the jurisdiction of ASTM Committee F03 on Gaskets and are the direct responsibility of Subcommittee F03.40 on Chemical Test Methods. Current edition approved ~~May 10, 2001~~; April 1, 2004. Published ~~July 2001~~; May 2004. Originally published as F 146 – 72; approved in 1972. Last previous edition F 146 – 98¹; approved in 2001 as F 146 – 01.