



Designation: **F1607–95 (Reapproved 2013) F1607 – 95 (Reapproved 2018)**

Standard Guide for Reporting of Test Performance Data for Oil Spill Response Pumps¹

This standard is issued under the fixed designation F1607; 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 guide is intended as a guideline for the standardized reporting of performance data of pumps and pump systems that may be considered for use in oil spill response operations. The present objective is to develop a reporting guideline to aid in the comparative evaluation of various devices.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are mathematical conversions to inch-pound units that are provided for information only and are not considered standard.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D2196 Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational Viscometer

F631 Guide for Collecting Skimmer Performance Data in Controlled Environments

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *oil spill response pump*—devices used to transfer oil, oil and water mixtures, and emulsions. These include centrifugal pumps, positive displacement pumps, vacuum pumps, and other systems.

3.1.2 *pump system*—the principal fluid moving device, including the prime mover, associated hose and fittings, and associated equipment such as debris handling devices that are normally used during oil spill response operations.

4. Significance and Use

4.1 The performance criteria listed in this guide will provide guidance in the selection of oil spill pumping equipment.

4.2 This guide has been developed for use by the following: manufacturers of pumping systems who wish to establish a common means of evaluating and reporting the performance characteristics of their products; and existing or potential users of pumping systems who wish to compare the performance characteristics of various products.

5. Test Fluids: Suggested Test Fluid Viscosities

5.1 A selection of test fluids from the following viscosity ranges is recommended and should include an adequate number of data points to display the pump's performance over the intended range of operation. It is recommended that the test fluids include

¹ This guide is under the jurisdiction of ASTM Committee F20 on Hazardous Substances and Oil Spill Response and is the direct responsibility of Subcommittee F20.12 on Removal.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.