



Designation: D7225 – 13 (Reapproved 2019)^{ε1}

Standard Guide for Blood Cleaning Efficiency of Detergents and Washer- Disinfectors¹

This standard is issued under the fixed designation D7225; 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.

^{ε1} NOTE—Referenced Documents were updated editorially in May 2019.

1. Scope

1.1 This guide is based on a standardized test soil correlating to coagulated blood suitable for screening tests and the evaluation of the cleaning efficiency of washer-disinfectors used for reprocessing of surgical instruments. This guide strictly deals with cleaning and does not describe any methods that are related to disinfection. See Referenced Documents [D5343](#), [D4008](#), [D4265](#), [D2960](#), and [D3050](#) in Section 2 for additional information.

1.2 The values stated in SI units are to be regarded as standard. No other units of measurement are included in this 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

[D5343](#) Guide for Evaluating Cleaning Performance of Ceramic Tile Cleaners

[D4008](#) Guide for Measuring Anti-Soil Deposition Properties of Laundry Detergents

[D4265](#) Guide for Evaluating Stain Removal Performance in Home Laundering

[D2960](#) Guide for Controlled Laundering Test Using Naturally Soiled Fabrics and Household Appliances (Withdrawn 2013)³

[D3050](#) Guide for Measuring Soil Removal from Artificially Soiled Fabrics (Not Suitable for Detergent Ranking)

2.2 *AAMI Standards:*⁴

[ANSI/AAMI ST79](#) Comprehensive guide to steam sterilization and sterility assurance in health care facilities

[AAMI TIR 12](#) Designing, testing, and labelling reusable medical devices for reprocessing in health care facilities: a guide for medical device manufacturers

[ANSI/AAMI/ISO 17664](#) Processing of health care products—Information to be provided by the medical device manufacturer for the processing of medical devices

[AAMI TIR 30](#) A compendium of processes, materials, test methods, and acceptance criteria for cleaning reusable medical devices

2.3 *ISO Standards:*⁵

[ISO 15883–2](#) Washer-disinfectors, part 2: requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc.

[ISO/TS 15883–5](#) Washer-disinfectors, part 5: test soils and methods for demonstrating cleaning efficacy of washer-disinfectors

3. Summary of Guide

3.1 The standardized test soil is based on a proteinous matrix containing fibrinogen and thrombin in two separated components. Coagulation and formation of fibrin fibers are induced after mixing the two components.

¹ This guide is under the jurisdiction of ASTM Committee D12 on Soaps and Other Detergents and is the direct responsibility of Subcommittee D12.16 on Hard Surface Cleaning.

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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.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁵ Available from International Organization for Standardization (ISO), 1, ch. de la Voie-Creuse, CP 56, CH-1211 Geneva 20, Switzerland, <http://www.iso.org>.