American National Standard for Hand Protection Classification

Secretariat International Safety Equipment Association

Approved January 12, 2016 American National Standards Institute, Inc.

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American National Standard

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Published by

International Safety Equipment Association 1901 North Moore Street, Suite 808, Arlington, Virginia 22209

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Printed in the United States of America

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Foreword (This Foreword is not part of American National Standard ANSI/ISEA 105-2016)

OSHA requires that employers select and require employees to use appropriate hand protection where there is workplace exposure to hazards such as chemical burns or severe cuts and lacerations. OSHA also mandates that such selection be based on an evaluation of performance characteristics of hand protection relative to the tasks being performed.

ANSI/ISEA 105-2016 is the latest revision of a voluntary industry consensus standard that was first published in 1999 and revised in 2005 and 2011. The document classifies a whole glove or material used in the construction of an occupational glove to help people understand glove performance data if they are not familiar with the details of the test methods and the results to be expected when testing. Such classifications can assist employers and product users in the appropriate specification and selection of gloves for specific workplace exposures. This document provides or refers to appropriate test methods for specified criteria and provides pass/fail criteria to allow users to interpret test results and determine if certain hand protection products meet their needs.

One of the major changes in this fourth edition of ANSI/ISEA 105 surrounds the determination of classification for cut-resistance. For purposes of classifying a glove to this standard, a single test method has been selected in an effort to provide consistent meaning of the ratings from the end-user perspective. In addition, the number of classification levels has been expanded to address the disparate gap among certain levels seen in earlier versions and to model the approach used in similar international standards.

Additional updates include the incorporation of a needlestick puncture test, recognizing that this is a common potential exposure for the medical, sanitation and recycling industries. Cited test methods have been updated throughout the standard to reflect the state of the art in materials performance and technology and to harmonize with other existing standards, where possible.

This revision was prepared by members of the Hand Protection Group of the International Safety Equipment Association (ISEA). The following companies were members of the group at the time of the approval of the standard:

Ansell Protective Products DSM Dyneema Ergodyne D3O DuPont Personal Protection HexArmor Honeywell Safety Products Kimberly-Clark Professional Lakeland Industries, Inc. Magid Glove and Safety Mfg. Co. LLC MCR Safety National Safety Apparel OccuNomix International LLC Protective Industrial Products Inc. Radians Inc. Saf-T-Gard International World Fibers, Inc.

This standard was approved using consensus procedures prescribed by the American National Institute. The following organizations were contacted prior to the approval of this standard. Inclusion in this list does not necessarily imply that the organization concurred with the submittal of the proposed standard to ANSI.

Apollo Performance Gloves Arauca North America Arcadis-US Associated Milk Producers, Inc. Atlas Contractors Boise Cascade Cudd Energy Services FNF Inc. International Personnel Protection, Inc. Leggett Los Angeles Department of Water and Power MAPA Professional Milwaukee Tool National Institute for Standards and Technology National Waste & Recycling Association Noble Corporation Schlumberger Stony Brook University Hospital SW Research Inc. UL, LLC United Scrap Metal, Inc. WestRock Waste Management Youngstown Glove

Inquiries related to the standard and suggestions to improve the document can be emailed to isea@safetyequipment.org.

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