



ANSI / ISEA

107-2020

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## American National Standard for High-Visibility Safety Apparel

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**ANSI/ISEA 107-2020**  
(REVISION OF ANSI/ISEA 107-2015)

**American National Standard for  
High-Visibility Safety Apparel**

Secretariat  
**International Safety Equipment Association**

Approved September 8, 2020  
**American National Standards Institute, Inc.**

**American  
National  
Standard**

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## Foreword

(This Foreword is not part of American National Standard ANSI/ISEA 107-2020)

This 2020 version of ANSI/ISEA 107 represents the fifth edition of the voluntary industry consensus standard addressing high-visibility safety apparel used in occupational settings. Since its initial publication in 1999, the standard has been the authoritative document for the design, performance or materials for high visibility PPE in the United States, having been codified into U.S. Department of Transportation, Federal Highway Administration (FHWA) regulations and incorporated by reference into other relevant worker protection standards.

ANSI/ISEA 107-2020 retains the long-standing Type-Performance Class designation of garments, whereby the Type is based on the expected use setting and the Performance Class is identified based on the amount of visible materials and design attributes incorporated into the finished garment. The criteria for high-visibility accessories have been removed in favor of continuing to emphasize the configurations and design requirements that contribute to the Type-Performance Class designation. Wearers and users should be encouraged to utilize high-visibility accessories including gloves, hoods, and head coverings to enhance their visibility.

It has been recognized that there are many work applications where worker visibility is imperative and the working environment itself can cause the garment to become soiled easily. To accommodate these scenarios, the updated ANSI/ISEA 107 version includes specific criteria for a single-use disposable coverall. It should be noted that this coverall configuration complies with the requisite minimum material amounts and color requirements imposed on all compliant high-visibility safety apparel and that the associated material integrity requirements are only applicable to single-use disposable coveralls, for which unique marking is applied. Updates have also been made to the tests methods in an effort to align more closely with other material integrity tests and to recognize current versions used for evaluating the materials.

The 2020 edition of the standard is introducing the concept of measuring the overall nighttime luminance of a garment by including optional language that allows a manufacturer to test a garment according to ASTM E1501. The committee believes that this standardized method and the data it generates throughout the next revision cycle will allow wearers to more easily compare the nighttime performance of garments and manufacturers to improve the design and performance of HVSA.

This revision was prepared by members of the High Visibility Products 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:

Arcwear.com	NASCO Industries
Blauer Manufacturing	National Safety Apparel
Bulwark FR	OccuNomix International
Carhartt	ORAFOL Americas, Inc.
DuPont	Pacific Safety Supply
ERB Industries	Performance Textiles, Inc. (div. of Brand and Oppenheimer)
Ergodyne	Protective Industrial Products
Global Glove & Safety	Pyramex Safety
Ironwear	Radians, Inc.
M.L. Kishigo Manufacturing	Safe Reflections
Lakeland Industries	Surewerx
3M Company	Tingley Rubber
Majestic Glove	Vartest Laboratories
MCR Safety	VisionVest

This standard was processed and approved using consensus procedures prescribed by the American National Standards 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.

American Road and Transportation Builders  
Association  
American Traffic Safety Services Association  
Association of Hazards Materials Professionals  
BSNF Railway  
Ms. Holly Burgess, CSP  
FCx Performance  
Georgia Department of Transportation  
Laborers' Health and Safety Fund of North  
America

Michigan Department of Transportation  
North Carolina State University  
Reflective Apparel Factory  
Roza Sunnyside Valley Irrigation  
State of Ohio Public Employment Risk Reduction  
Program  
Texas Department of Transportation  
Westex by Milliken

Suggestions for the improvement of this standard are welcome. Send suggestions to:

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