Data Acceptance Program (DAP) Assessment Report

Project Number: 4791372173 / Assessment conducted on July 24-25, 2024 / File Number: DA2382

Standard Number:	Standard Title:	Standard Edition (Amendment):	Clause:	Test method:
CSA Z96	High-Visibility Safety Apparel	2022	5.3.3	Colourfastness properties for background materials – Colourfastness properties related to care labeling
CSA Z96	High-Visibility Safety Apparel	2022	5.4	Dimensional Change for background materials
CSA Z96	High-Visibility Safety Apparel	2022	5.5.1	Mechanical properties for background materials - Bursting strength of knitted and other nonwoven materials
CSA Z96	High-Visibility Safety Apparel	2022	5.5.2	Mechanical properties for background materials - Tear resistance of woven materials (uncoated, coated, or laminated)
CSA Z96	High-Visibility Safety Apparel	2022	5.6.1	Performance under wet conditions – Water repellency
CSA Z96	High-Visibility Safety Apparel	2022	5.6.2	Performance under wet conditions – Water resistance
CSA Z96	High-Visibility Safety Apparel	2022	5.6.3	Performance under wet conditions – Water penetration
CSA Z96	High-Visibility Safety Apparel	2022	5.7	Water vapour permeability for background materials classified as breathable
CSA Z96	High-Visibility Safety Apparel	2022	6.1	Photometric performance for retroreflective and combined performance retroreflective materials before and after physical exposure - Photometric performance prior to test exposure
CSA Z96	High-Visibility Safety Apparel	2022	6.2	Photometric performance for retroreflective and combined performance retroreflective materials before and after physical exposure - Photometric performance after test exposure (Except 7.4.8 After Dry Cleaning)
CSA Z96	High-Visibility Safety Apparel	2022	7.4.1	Retroreflection after test exposures – Abrasion
CSA Z96	High-Visibility Safety Apparel	2022	7.4.2	Retroreflection after test exposures – Flexing
CSA Z96	High-Visibility Safety Apparel	2022	7.4.3	Retroreflection after test exposures – Folding at Cold Temperature
CSA Z96	High-Visibility Safety Apparel	2022	7.4.4	Retroreflection after test exposures – Exposure to Temperature Variation
CSA Z96	High-Visibility Safety Apparel	2022	7.4.7	Retroreflection after test exposures – Washing
CSA Z96	High-Visibility Safety Apparel	2022	7.4.9	Retroreflective performance under wet conditions
NFPA 2112	Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire	2023	8.1.3	WASHING AND DRYING PROCEDURE
NFPA 2112	Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire	2023	8.5	MANIKIN
NFPA 1971	Standard on Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting	2018	8.33	Total Heat Loss (THL)

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ISEA 107	High-Visibility Safety Apparel	2020	7.3	Criteria for Optional Features and Testing--Identification of Personnel (Type P)
ISEA 107	High-Visibility Safety Apparel	2020	7.5	Criteria for Optional Features and Testing--Single-Use Disposable Coveralls
ISEA 107	High-Visibility Safety Apparel	2020	8.1	Requirements for Background and Combined-Performance Retroreflective Materials--color
ISEA 107	High-Visibility Safety Apparel	2020	8.2	Requirements for Background and Combined-Performance Retroreflective Materials--Colorfastness of Background Material
ISEA 107	High-Visibility Safety Apparel	2020	8.3	Requirements for Background and Combined-Performance Retroreflective Materials--Dimensional Change of Background Material
ISEA 107	High-Visibility Safety Apparel	2020	8.4	Requirements for Background and Combined-Performance Retroreflective Materials--Mechanical Properties of Background Material
ISEA 107	High-Visibility Safety Apparel	2020	8.5	Requirements for Background and Combined-Performance Retroreflective Materials--Performance Under Wet Conditions
ISEA 107	High-Visibility Safety Apparel	2020	8.6	Requirements for Background and Combined-Performance Retroreflective Materials--Water Vapor Permeability for Background Materials Classified as Breathable
ISEA 107	High-Visibility Safety Apparel	2020	9.1	Photometric and Physical Performance Requirements for Retroreflective and Combined- Performance Materials--Retroreflective Performance Requirements Prior to Test Exposure
ISEA 107	High-Visibility Safety Apparel	2020	9.2	Photometric and Physical Performance Requirements for Retroreflective and Combined- Performance Materials--Retroreflective Performance Requirements After Test Exposure
ISEA 107	High-Visibility Safety Apparel	2020	10.1	Sampling and Conditioning
CSA Z96	High-Visibility Safety Apparel	2022	4	GARMENT CLASS AND DESIGN
CSA Z96	High-Visibility Safety Apparel	2022	4.4	Special allowances for FR garment design
CSA Z96	High-Visibility Safety Apparel	2022	5.1	Photometric and physical performance requirements for colour of background and combined-performance materials
CSA Z96	High-Visibility Safety Apparel	2022	5.2	Colourfastness to light (xenon) properties for background and combined- performance materials
CSA Z96	High-Visibility Safety Apparel	2022	5.3.1	Colourfastness properties for background materials –Colourfastness to crocking
CSA Z96	High-Visibility Safety Apparel	2022	5.3.2	Colourfastness properties for background materials – Colourfastness to perspiration

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ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.2.2	COLORFASTNESS OF BACKGROUND MATERIALS-COLORFASTNESS TO PERSPIRATION
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.2.3	COLORFASTNESS OF BACKGROUND MATERIALS-COLORFASTNESS - WHEN LAUNDERED, DRY-CLEANED, HYPOCHLORITE BLEACHED AND HOT-PRESSED
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.2.4	COLORFASTNESS OF BACKGROUND MATERIALS-COLORFASTNESS OF BACKGROUND MATERIALS AFTER XENON TEST
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.3	DIMENSIONAL CHANGE OF BACKGROUND MATERIAL(AATCC 135-2012:HOME LAUNDERING)
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.4.1	MECHANICAL PROPERTIES OF BACKGROUND MATERIALS - BURSTING STRENGTH OF KNITTED MATERIALS AND OTHER NONWOVEN CONSTRUCTIONS (UNCOATED, COATED OR LAMINATE)
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.4.2	MECHANICAL PROPERTIES OF BACKGROUND MATERIALS - TEAR RESISTANCE OF WOVEN MATERIALS (UNCOATED, COATED, OR LAMINATE)
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.5.1	PERFORMANCE UNDER WET CONDITIONS- WATER REPELLENCY
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.5.2	PERFORMANCE UNDER WET CONDITIONS- WATER RESISTANCE
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.5.3	PERFORMANCE UNDER WET CONDITIONS- WATERPROOF
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.6	WATER VAPOR PERMEABILITY FOR BACKGROUND MATERIALS CLASSIFIED AS BREATHABLE
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	9.1	PHOTOMETRIC AND PHYSICAL PERFORMANCE REQUIREMENTS FOR RETROREFLECTIVE MATERIALS-RETROREFLECTIVE PERFORMANCE REQUIREMENTS PRIOR TO TEST EXPOSURE
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	9.2	RETROREFLECTIVE PERFORMANCE REQUIREMENTS AFTER TEST EXPOSURE (EXCEPT 10.4.5.3-DRY CLEANING)
NFPA 1971	Protective Ensembles for Structural Fire Fighting and Proximity Fire Fighting	2018	8.45	RETROREFLECTIVITY AND FLOURESCENCE
NFPA 1999	Standard on Protective Clothing and Ensembles for Emergency Medical Operations	2018	8.28	Moisture Vapor Transmission Rate
ISEA 107	High-Visibility Safety Apparel	2020	6	Design
ISEA 107	High-Visibility Safety Apparel	2020	7.1	Criteria for Optional Features and Testing--Pockets
ISEA 107	High-Visibility Safety Apparel	2020	7.2	Criteria for Optional Features and Testing--Identification Panels, Lettering and Logos (Type R and P)

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CSA Z96	High-Visibility Safety Apparel	2015	6.1	PHOTOMETRIC AND PHYSICAL PERFORMANCE REQUIREMENTS FOR RETROREFLECTIVE MATERIALS-PERFORMANCE OF RETROREFLECTIVE MATERIAL PRIOR TO TEST EXPOSURES
CSA Z96	High-Visibility Safety Apparel	2015	6.2	PERFORMANCE OF RETROREFLECTIVE MATERIAL AFTER TEST EXPOSURES (EXCEPT 8.4.7-DRY CLEANING)
CSA Z96	High-Visibility Safety Apparel	2015	7.2	DETERMINATION OF COLOUR
CSA Z96	High-Visibility Safety Apparel	2015	7.3	DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE
CSA Z96	High-Visibility Safety Apparel	2015	7.4.1	RETROREFLECTION AFTER TEST EXPOSURES-ABRASION
CSA Z96	High-Visibility Safety Apparel	2015	7.4.2	RETROREFLECTION AFTER TEST EXPOSURES-FLEXING
CSA Z96	High-Visibility Safety Apparel	2015	7.4.3	RETROREFLECTION AFTER TEST EXPOSURES-FOLDING AT COLD TEMPERATURES
CSA Z96	High-Visibility Safety Apparel	2015	7.4.4	RETROREFLECTION AFTER TEST EXPOSURES-EXPOSURE TO TEMPERATURE VARIATION
CSA Z96	High-Visibility Safety Apparel	2015	7.4.6	RETROREFLECTION AFTER TEST EXPOSURES-WASHING ACCORDING TO CARE LABEL
CSA Z96	High-Visibility Safety Apparel	2015	7.4.8	RETROREFLECTION AFTER TEST EXPOSURES-RETROREFLECTIVE PERFORMANCE UNDER WET CONDITIONS
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.2	DETERMINATION OF COLOR
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.3	METHOD FOR DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.4.1	RETROREFLECTION AFTER TEST EXPOSURE-ABRASION
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.4.2	RETROREFLECTION AFTER TEST EXPOSURE-FLEXING
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.4.3	RETROREFLECTION AFTER TEST EXPOSURE-FOLDING AT COLD TEMPERATURES
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.4.4	RETROREFLECTION AFTER TEST EXPOSURE-EXPOSURE TO TEMPERATURE VARIATION
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.4.5.1 - 10.4.5.2	RETROREFLECTION AFTER TEST EXPOSURE-WASHING
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	10.4.6	RETROREFLECTION AFTER TEST EXPOSURE-RETROREFLECTIVE WET PERFORMANCE
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	6	DESIGN
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.1.1	COLOR- BACKGROUND AND COMBINED-PERFORMANCE MATERIALS PRIOR TO EXPOSURE TESTS
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.1.2	COLOR-COLORFASTNESS OF COMBINED-PERFORMANCE MATERIALS AFTER XENON TEST
ISEA 107	High-Visibility Safety Apparel and Accessories	2015	8.2.1	COLORFASTNESS OF BACKGROUND MATERIALS - COLORFASTNESS TO CROCKING

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ATTACHMENT A - Post Audit Scope (91 Tests Total)				
CSA Z96	High-Visibility Safety Apparel	2009	6.1	PHOTOMETRIC AND PHYSICAL PERFORMANCE REQUIREMENTS FOR RETROREFLECTIVE MATERIALS-PERFORMANCE OF RETROREFLECTIVE MATERIAL PRIOR TO TEST EXPOSURES
CSA Z96	High-Visibility Safety Apparel	2009	6.2	PERFORMANCE OF RETROREFLECTIVE MATERIAL AFTER TEST EXPOSURES (EXCEPT 8.4.7-DRY CLEANING)
CSA Z96	High-Visibility Safety Apparel	2015	4	GARMENT CLASS AND DESIGN
CSA Z96	High-Visibility Safety Apparel	2015	4.4	SPECIAL ALLOWANCES FOR FR GARMENT DESIGN
CSA Z96	High-Visibility Safety Apparel	2015	5.1	COLOUR OF BACKGROUND AND COMBINED-PERFORMANCE MATERIALS
CSA Z96	High-Visibility Safety Apparel	2015	5.2.1	COLOURFASTNESS PROPERTIES FOR BACKGROUND MATERIALS-COLOURFASTNESS TO LIGHT (XENON)
CSA Z96	High-Visibility Safety Apparel	2015	5.2.2	COLOURFASTNESS PROPERTIES FOR BACKGROUND MATERIALS-COLOURFASTNESS TO CROCKING
CSA Z96	High-Visibility Safety Apparel	2015	5.2.3	COLOURFASTNESS PROPERTIES FOR BACKGROUND MATERIALS-COLOURFASTNESS TO PERSPIRATION
CSA Z96	High-Visibility Safety Apparel	2015	5.2.4	COLOURFASTNESS PROPERTIES FOR BACKGROUND MATERIALS-COLOURFASTNESS PROPERTIES RELATED TO CARE LABELING
CSA Z96	High-Visibility Safety Apparel	2015	5.3	DIMENSIONAL CHANGE FOR BACKGROUND MATERIALS
CSA Z96	High-Visibility Safety Apparel	2015	5.4.1	MECHANICAL PROPERTIES OF BACKGROUND MATERIALS-BURSTING STRENGTH OF KNITTED AND OTHER NONWOVEN MATERIALS
CSA Z96	High-Visibility Safety Apparel	2015	5.4.2	MECHANICAL PROPERTIES OF BACKGROUND MATERIALS-TEAR RESISTANCE OF WOVEN MATERIALS (UNCOATED, COATED, OR LAMINATED)
CSA Z96	High-Visibility Safety Apparel	2015	5.5.1	PERFORMANCE UNDER WET CONDITIONS-WATER REPELLENCY
CSA Z96	High-Visibility Safety Apparel	2015	5.5.2	PERFORMANCE UNDER WET CONDITIONS-WATER RESISTANCE
CSA Z96	High-Visibility Safety Apparel	2015	5.5.3	PERFORMANCE UNDER WET CONDITIONS-WATER PENETRATION
CSA Z96	High-Visibility Safety Apparel	2015	5.6	WATER VAPOUR PERMEABILITY FOR BACKGROUND MATERIALS CLASSIFIED AS BREATHABLE