

CASCO **FORTE**



Características:

- Fabricado en polietileno de alta densidad (HDPE).
- Suspensión de nylon con ratchet de 4 puntos y banda anti-sudor.
- Posee un ajuste fijo para la resistencia al impacto.
- Tipo I: Resistencia al impacto vertical.
- Clase E: Dieléctrico protección hasta 20000 voltios.
- Posee dos puntos de apoyo, para barbiquejo.
- Ranura para otros accesorios.
- Banda acolchada anti-sudor en la parte frontal.

Certificaciones:

- ANSI Z89.1-2014 Tipo I Clase E.

Mantenimiento:

- El casco debe ser inspeccionado antes de cada uso.
- Asegúrese de graduar y ajustar correctamente la suspensión a medida de la cabeza del usuario, de forma que no se caiga al realizar movimientos.
- La suspensión debe ser reemplazada si presenta algún daño.

Descripción:

Los cascos FORTE son productos fabricados en polietileno de alta densidad (HDPE) lo que brinda alta resistencia al impacto y baja degradación.

STEELPRO SAFETY®

Aplicaciones:

- Todas las actividades industriales que requieran protección de cabeza.



Ni el vendedor ni el fabricante serán responsables de cualquier lesión personal, pérdida o daños ya sean directos o consecuentes del mal uso de este producto. Antes de ser usado, se debe determinar si el producto es apropiado para el uso pretendido.



Test Report # T13631-01-2 Issue 1
ANSI/ISEA Z89.1 - 2014 (R2019)
Vicsa Safety Perú SAC
Steelpro Forte - Industrial Safety Helmet
19 August 2020



Approved by:

Sarah Henderson
Head Protection, Hand Protection &
Athletic Equipment - Laboratory Manager

Prepared by:

Shelley Brady
Head Protection & Athletic Equipment -
Laboratory Administrator

- a) Reports are issued pursuant to the ICS standard Terms and Conditions agreement.
- b) The contents of this test report are confidential. Reproduction of the report is prohibited except in full, unless approved in writing by ICS Laboratories, Inc.
- c) Unless otherwise indicated, the test results contained in this report apply only to the samples tested and not to lots or batches from which they were taken.
- d) Where applicable, test data provided by subcontractor is uniquely identified in the test report.
- e) Where applicable, test data not covered under our ISO/IEC 17025 Accreditation is uniquely identified in the test report.

WARNING: This Test Report may contain technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et seq., and which may not be exported, released or disclosed to non-U.S. persons (i.e. persons who are not U.S. citizens or lawful permanent residents ("green card" holders)) inside or outside the United States, without first obtaining an export license. Violations of these export laws are subject to severe civil, criminal and administrative penalties.

ICS Laboratories, Inc. • 1072 Industrial Parkway North • Brunswick, Ohio 44212 USA
Phone: 330.220.0515 Fax: 330.220.0516

AF 3.3-1a (23 Sep 15)



Issued to: Vicsa Safety Perú SAC
 Avenida Santa Rosa 350
 Ate, Lima
 Perú

Date: 19 August 2020
 Report: T13631-01-2
 Issue: 1
 Page: 1 of 3

Objective:

Contract testing to ANSI/ ISEA Z89.1-2014 (R2019) "American National Standard for Industrial Head Protection".

-Type I, Class E

Sample(s):

Steelpro Forte - Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Shell (Cap) w/ Ratchet Suspension 4 pt., Non-Vented w/ Chin Strap	30	12/19	HDPE	24 February 2020	1A-x

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

Testing procedures as specified within Section 10 of ANSI/ ISEA Z89.1-2014 (R2019) were followed.

Testing was performed at room temperature $23^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($73.4^{\circ}\text{F} \pm 5.4^{\circ}\text{F}$) per ANSI/ ISEA Z89.1 – 2014 (R2019).

Equipment:

Cadex Twin Wire Test Platform
 Envirotronics Model FLX900 Environmental Conditioning Chamber
 Hanco Dielectric Strength Chamber
 Cadex Impact Software V6.9U

Assessment Summary:

Date Tested: 12 March 2020 - 19 March 2020
 Test Performed By: Joe McGreal – Engineering Technician

Requirements	Compliant	Non-Compliant
6 Instruction and Marking		Excluded
7 Performance Requirements		
7.1 Requirements for Type I and Type II Helmets		
7.1.1 Flammability	X	
7.1.2 Force Transmission	X	
7.1.3 Apex Penetration	X	
7.1.4 Electrical Insulation Requirement		
7.1.4.2 Electrical Insulation Requirement - Class E	X	
7.3 Requirements for Optional Testing		
7.3.1 Reverse Wearing		
-Force Transmission		
7.3.2 High-Visibility		
7.3.3 Higher Temperature		
7.3.4 Lower Temperature		
		Not Applicable

Samples as assessed meet the mechanical performance requirements of ANSI/ ISEA Z89.1 2014 (R2019) for Type I, Class E.



Issued to: Vicsa Safety Perú SAC
 Avenida Santa Rosa 350
 Ate, Lima
 Perú

Date: 19 August 2020
 Report: T13631-01-2
 Issue: 1
 Page: 2 of 3

Results:

7.1.1 Flammability

Sample ID	Afterflame (sec)	Pass	Fail
1A-12	0	X	
Specification:	< 5		

7.1.2 Force Transmission

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
1A-1	49 ± 2	5.50	4416	≤ 4450	-	X	
1A-2		5.49	3260		-	X	
1A-3		5.49	4060		-	X	
1A-4		5.49	3305		-	X	
1A-5		5.50	3932		-	X	
1A-6		5.50	3866		-	X	
1A-7		5.49	3253		1	X	
1A-8		5.50	4321		-	X	
1A-9		5.51	3397		1	X	
1A-10		5.50	3408		-	X	
1A-11		5.50	3549		-	X	
1A-12		5.50	4408		-	X	
Average		3765		≤ 3780		X	
1A-13	-18 ± 2	5.51	2634	≤ 4450	-	X	
1A-14		5.50	2683		-	X	
1A-15		5.50	2696		-	X	
1A-16		5.51	2845		-	X	
1A-17		5.50	2609		2	X	
1A-18		5.51	2648		2	X	
1A-19		5.50	2556		2	X	
1A-20		5.51	2554		2	X	
1A-21		5.50	2599		2	X	
1A-22		5.50	2654		-	X	
1A-23		5.52	2737		-	X	
1A-24		5.50	2641		2	X	
Average		2655		≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:
 (-) No observation



Issued to: Vicsa Safety Perú SAC
Avenida Santa Rosa 350
Ate, Lima
Perú

Date: 19 August 2020
Report: T13631-01-2
Issue: 1
Page: 3 of 3

7.1.3 Apex Penetration

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
1A-25	49 ± 2	7.0	No	-	X	
1A-26		7.0	No	-	X	
1A-27		7.0	No	-	X	
1A-28		7.0	No	-	X	
1A-29		7.0	No	-	X	
1A-30		7.0	No	-	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:
(-) No observation

7.1.4.3 Electrical Insulation Requirements (Class E)

Sample ID	Leakage (mA)	Burn Through (Yes/ No)	Observations	Pass	Fail
1A-1	4.3	No	-	X	
1A-13	4.3	No	-	X	
Specification:	Class E: ≤ 9 mA No Burn Through Allowed				

Class E - 20,000 volts, 60 Hz, 3 minutes, 30,000 volts no burn through.

Note: The water level was lowered below the test line to prevent flashover during Class E testing. If the water level was at the test line, the water would connect from inside to outside at the side slot and would fail a Class G test. Lowering the line to prevent flashover allowed the slot to be above the water level and for the material of the shell to pass the test.

Observations:
(-) No observation