

# CASCO **FORTE**



## 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®

## 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.

## Aplicaciones:

- Todas las actividades industriales que requieran protección de cabeza.



## 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.
- El casquete debe ser reemplazado si presenta algún daño o cuando el material se note deteriorado.
- Si el casco sufre un impacto, se recomienda cambiarlo inmediatamente.
- Limpiar diariamente con agua y jabón neutro.

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.

Síguenos:



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R.U.C.: 20612313441

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**INC. LABORATORIES**

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



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

Date: 19 August 2020  
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**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	<i>Excluded</i>	
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	Not Applicable	
7.3.2 High-Visibility		
7.3.3 Higher Temperature		
7.3.4 Lower Temperature		

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

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**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

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### 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	-18 ± 2	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