

# exena.

## UNITY S3L FO SC SR ESD



| DESCRIPTION                                                                   | NORM EN ISO 20345:2022<br>+ A1:2024                                                                                               | RESULT                                                                                  | REQUIREMENT                                                                                        |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>UPPER:</b> Breathable and high abrasion resistant                          | 5.4.3 Tear strength<br>5.4.6 Water vapor permeability Coefficient                                                                 | 178 N<br>4,2 mg/cm <sup>2</sup> h<br>33,6 mg/cm <sup>2</sup>                            | ≥60 N<br>≥ 0,8 mg/cm <sup>2</sup> h<br>≥15,0 mg/cm <sup>2</sup>                                    |
| <b>VAMP LINING:</b> Breathable, abrasion resistant textile                    | 5.5.2 Tear strength<br>5.5.3 Abrasion resistance (Wet)<br>Abrasion resistance (Dry)<br>5.5.4 Water vapor permeability Coefficient | 42 N<br>No holes<br>No holes<br>139,2 mg/cm <sup>2</sup> h<br>1113,9 mg/cm <sup>2</sup> | ≥ 15 N<br>25.600 cycles<br>51.200 cycles<br>≥ 2,0 mg/cm <sup>2</sup> h<br>≥20,0 mg/cm <sup>2</sup> |
| <b>QUARTER LINING:</b> Breathable synthetic fabric, resistant to abrasion     | 5.5.2 Tear strength<br>5.5.3 Abrasion resistance (Wet)<br>Abrasion resistance (Dry)<br>5.5.4 Water vapor permeability Coefficient | 32 N<br>No holes<br>No holes<br>126,4 mg/cm <sup>2</sup> h<br>1011,6 mg/cm <sup>2</sup> | ≥ 15 N<br>25.600 cycles<br>51.200 cycles<br>≥ 2,0 mg/cm <sup>2</sup> h<br>≥20,0 mg/cm <sup>2</sup> |
| <b>COUNTER LINING:</b> Grey microfiber breathable, abrasion resistant textile | 5.5.2 Tear strength<br>5.5.3 Abrasion resistance (Wet)<br>Abrasion resistance (Dry)<br>5.5.4 Water vapor permeability Coefficient | 32 N<br>No holes<br>No holes<br>15,2 mg/cm <sup>2</sup> h<br>122,6 mg/cm <sup>2</sup>   | ≥ 15 N<br>25.600 cycles<br>51.200 cycles<br>≥ 2,0 mg/cm <sup>2</sup> h<br>≥20,0 mg/cm <sup>2</sup> |
| <b>SAFETY TOE CAP:</b> Fiberglass 200J                                        | 5.3.2.6 Impact resistance<br>5.3.2.7 Compression resistance                                                                       | 16,0 mm<br>16,0 mm                                                                      | ≥ 14 mm<br>≥ 14 mm                                                                                 |

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|                                                               |                                                                                                                                                                                                                                                                                                                           |                                                                                                                                         |                                                                                                                                        |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>PIERCE-RESISTANCE:</b> Class<br>PL anti-perforation fabric | 6.2.1.14 Resistance to perforation                                                                                                                                                                                                                                                                                        | PASS                                                                                                                                    | Min.1100 N                                                                                                                             |
| <b>FOOTBED:</b> Removable,<br>cushioned, antistatic insole    | 5.7.4.2 Abrasion resistance (Wet)<br>Abrasion resistance (Dry)                                                                                                                                                                                                                                                            | No holes<br>No holes                                                                                                                    | 12.800 cycles<br>25.600 cycles                                                                                                         |
| <b>OUTSOLE:</b> 3 density<br>polyurethane with E-tpu insert   | 5.8.3 Tear strength<br>5.8.4 Abrasion resistance<br>5.8.5 Flexing resistance<br>5.8.6 Hydrolysis<br>6.2.2.2 Antistatic<br><br>6.4.2 Oils resistance<br>5.3.5.2 Slip resistance sodium lauryl<br>sulphate<br>Forward heel slip<br>Backward forepart slip<br>6.2.10 Glycerin<br>Forward heel slip<br>Backward forepart slip | 8,4 kN/m<br>77 mm <sup>3</sup><br>2,1 mm<br>2,5 mm<br>dry: 51,8 MΩ<br>wet: 5,87 MΩ<br>1,3 %<br><br><br>0,34<br>0,39<br><br>0,22<br>0,25 | ≥ 8 kN/m<br>≤ 150 mm <sup>3</sup><br>≤ 4,0 mm<br>≤ 6,0 mm<br>pass<br>pass<br>≤ 12%<br><br><br>≥ 0,31<br>≥ 0,36<br><br>≥ 0,19<br>≥ 0,22 |

**SIZES:** 35 – 48

**WEIGHT:**

|     |     |     |     |     |      |      |      |      |      |      |      |      |      |
|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|
| 35  | 36  | 37  | 38  | 39  | 40   | 41   | 42   | 43   | 44   | 45   | 46   | 47   | 48   |
| 816 | 856 | 896 | 936 | 976 | 1016 | 1056 | 1096 | 1136 | 1176 | 1216 | 1256 | 1296 | 1336 |

| Size | EAN code      |
|------|---------------|
| 35   | 9091000243352 |
| 36   | 9091000243369 |
| 37   | 9091000243376 |
| 38   | 9091000243383 |
| 39   | 9091000243390 |
| 40   | 9091000243406 |
| 41   | 9091000243413 |
| 42   | 9091000243420 |
| 43   | 9091000243437 |
| 44   | 9091000243444 |
| 45   | 9091000243451 |
| 46   | 9091000243468 |
| 47   | 9091000243475 |
| 48   | 9091000243482 |

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|                             |                                         |
|-----------------------------|-----------------------------------------|
| <b>Descrizione campione</b> | Calzatura di sicurezza art. UNITY – ESD |
| <i>Sample description</i>   | Safety footwear art. UNITY – ESD        |



**Data di emissione**

*Date of issue*

08/06/2026

**Responsabile Laboratorio Tecnologico**

*Technological Laboratory Manager*

Andrea Boggio Marzet



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## 1. Oggetto della valutazione *Object of evaluation:*

Calzatura di sicurezza art. UNITY – ESD

## 2. Requisiti specifici *Specific requirements:*

- (<sup>1</sup>) EN 61340-5-1:2024 Elettrostatica - Parte 5-1: Protezione di dispositivi elettronici dai fenomeni elettrostatici - Prescrizioni generali  
*Electrostatics - Part 5-1: Protection of electronic devices from electrostatic phenomena - General requirements*
- (<sup>2</sup>) EN IEC 61340-4-5:2018 Elettrostatica - Parte 4-5: Metodi di prova normalizzati per applicazioni Metodi per caratterizzare la protezione elettrostatica della combinazione di pavimentazioni e di calzature indossate da un operatore  
*Electrostatics - Part 4-5: Standard test methods for specific applications - Methods for characterizing the electrostatic protection of footwear and flooring in combination with a person*
- (<sup>3</sup>) EN IEC 61340-4-3:2018 Elettrostatica - Parte 4-3: Metodo di prova normalizzato per applicazioni specifiche - Calzature  
*Electrostatics - Part 4-3: Standard test methods for specific applications - Footwear*

## 3. Lista di riscontro *Checklist:*

| Requisito normativo<br><i>Standard requirement</i> |                                                           | Prova<br><i>Test</i>    |                                                                 | Rapporto di prova<br><i>Test report</i> | Eseguito<br><i>Performed</i>        |
|----------------------------------------------------|-----------------------------------------------------------|-------------------------|-----------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| 5.3.3<br>( <sup>1</sup> )                          | Messa a terra del personale<br><i>Personnel grounding</i> | 6.3<br>( <sup>2</sup> ) | Resistenza elettrica verso terra<br><i>Resistance to ground</i> | 26-1146.16                              | <input checked="" type="checkbox"/> |
|                                                    |                                                           | 6.4<br>( <sup>2</sup> ) | Capacità di carica<br><i>Chargeability</i>                      | 26-408.6                                | <input checked="" type="checkbox"/> |
|                                                    |                                                           | 7<br>( <sup>3</sup> )   | Resistenza elettrica<br><i>Electrical resistance</i>            | 26-408.6                                | <input checked="" type="checkbox"/> |

## 4. Note *Notes:* ---

## TERMINI E CONDIZIONI TERMS AND CONDITIONS

Il contenuto del presente riesame (rif. 7.1 ISO/IEC 17000:2020) si riferisce unicamente al campione presentato e alle prove riportate nel rapporto di prova di cui sopra. Questo riesame non ha validità di approvazione, certificazione, supervisione, controllo, e/o sorveglianza verso questo o qualsiasi prodotto in relazione ad esso.

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*The content of this conformity review (ref. 7.1 ISO/IEC 17000:2020) refers only to the sample received and to the tests reported in the above-mentioned test report. This conformity review has no validity for approval, certification, supervision and/or control towards this or whatsoever product related.*

*Where a translation of this document exists, the bilingual version (Italian and English) shall be considered as the authoritative text.*