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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|-------|
|                                                                                                                                                                                                      | <b>U GROUP SRL</b><br>Via Borgomanero n° 1<br>28040 Paruzzaro (NO) | <b>LEGAL DATA:</b><br>Tax Code and Reg.Imp.Novara: 02041920030<br>CCIAA Novara REA: 211799<br>VAT: IT02041920030<br>Export Code: No015724<br>Share Capital: 119.000 Iv | <b>CONTACTS:</b><br>WEBSITE: www.u-power.ai/en-gb<br>EMAIL: info@u-power.it<br>TEL: +39 0322 53 94 01<br>FAX: +39 0322 23 00 01 | <b>REV.</b><br><b>31/07/2026</b>                                                    |             |       |
| TECHNICAL SHEET                                                                                                                                                                                                                                                                       |                                                                    | PRODUCT PHOTO                                                                                                                                                          | LINES                                                                                                                           | TECHNOLOGIES                                                                        |             |       |
| <b>ORT20094 - VHAGAR ESD</b><br><br>S3S CI HI HRO FO SR<br>Natural Confort 11 Mondopoint®<br>NanoFiber Toe Cap, ultralight, metal free.<br>FOOTWEAR TYPE "A"<br>TEST REPORT SIZE 42<br>SIZES 35-48                                                                                    |                                                                    |                                                                                      |                                              |  |             |       |
| DESCRIPTION                                                                                                                                                                                                                                                                           |                                                                    | TECHNICAL SPECIFICATIONS                                                                                                                                               |                                                                                                                                 |                                                                                     | NORM EN ISO | VALUE |
| VHAGAR ESD is a safety shoe with protection class S3S CI HI HRO FO SR, designed for outdoor environments and harsh conditions. The PUTEK Star upper offers high abrasion resistance and water resistance, while the Super Critical Technology outsole provides comfort and stability. |                                                                    | EN ISO 20345:2022+A1:2024                                                                                                                                              |                                                                                                                                 |                                                                                     |             |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | <b>SAFETY TOE CAP</b>                                                                                                                                                  |                                                                                                                                 |                                                                                     |             |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Impact resistance. Free heights after collision mm                                                                                                                     |                                                                                                                                 | ≥14                                                                                 | 16,0        |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Compressive strength. Free heights after compr. mm                                                                                                                     |                                                                                                                                 | ≥14                                                                                 | 17,0        |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | <b>ANTI-PERFORATION INSERT</b>                                                                                                                                         |                                                                                                                                 |                                                                                     |             |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Puncture resistance                                                                                                                                                    |                                                                                                                                 | ≥1100N                                                                              | Compliant   |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | <b>ELECTRICAL RESISTANCE OF THE SHOE</b>                                                                                                                               |                                                                                                                                 |                                                                                     |             |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Measurement result                                                                                                                                                     |                                                                                                                                 | <10 <sup>9</sup> ohm                                                                | Compliant   |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | <b>VAMP LINING</b>                                                                                                                                                     |                                                                                                                                 |                                                                                     |             |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Permeability to water vapor mg/(cm^2 h)                                                                                                                                |                                                                                                                                 | ≥2                                                                                  | 77,5        |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Permeability coefficient mg/cm^2                                                                                                                                       |                                                                                                                                 | ≥20                                                                                 | 620,2       |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Resistance to abrasion                                                                                                                                                 |                                                                                                                                 | 12800/25600 cycles                                                                  | No hole     |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | <b>SOLE WEAR</b>                                                                                                                                                       |                                                                                                                                 |                                                                                     |             |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Abrasion resistance (volume loss) mm^3                                                                                                                                 |                                                                                                                                 | ≤150                                                                                | 79          |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Bending resistance mm                                                                                                                                                  |                                                                                                                                 | ≤4                                                                                  | 1.0         |       |
|                                                                                                                                                                                                                                                                                       |                                                                    | Resistance to sole / midsole detachment N/mm                                                                                                                           |                                                                                                                                 | ≥3                                                                                  | 4.3         |       |
| Heel energy absorption J                                                                                                                                                                                                                                                              |                                                                    | ≥20                                                                                                                                                                    | 33                                                                                                                              |                                                                                     |             |       |
| <b>SLIP RESISTANCE</b>                                                                                                                                                                                                                                                                |                                                                    |                                                                                                                                                                        |                                                                                                                                 |                                                                                     |             |       |
| On ceramic with NaLS (forward heel 7°)                                                                                                                                                                                                                                                |                                                                    | ≥0,31                                                                                                                                                                  | 0.38                                                                                                                            |                                                                                     |             |       |
| On ceramic with NaLS (backward heel 7°)                                                                                                                                                                                                                                               |                                                                    | ≥0,32                                                                                                                                                                  | 0.43                                                                                                                            |                                                                                     |             |       |
| SR-Slip resistance on ceramic with glycerin (forward heel 7°)                                                                                                                                                                                                                         |                                                                    | ≥0,19                                                                                                                                                                  | 0.26                                                                                                                            |                                                                                     |             |       |
| SR-Slip resistance on ceramic with glycerin (backward heel 7°)                                                                                                                                                                                                                        |                                                                    | ≥0,22                                                                                                                                                                  | 0.29                                                                                                                            |                                                                                     |             |       |