

TECHNICAL SHEET



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|---------------------------|--|
| Article: | B0978 OREN |
| Norm: | UNI EN ISO 20345:2011 |
| Safety Class: | S3 SRC |
| Footwear height: | Mod. A, H 75 mm (< 113 mm, Rif. EN 20345-5.2.2) |
| Weight (size 42) | 480gr. |
| Width: | 12 |
| Construction: | STROBEL; MONO PU SOLE |
| Cleaning and maintenance: | Use only soft brushes and water. Do not use substances such as alcohol, thinners, gasoline, oil or any other chemicals. Keep the footwear, dry and clean, in a proper place at room temperature. |
| Suggested fields: | Mechanics, building finishes, light industry, services, craftsman, automotive, automated lines. |

| Entire footwear: protections | | | | |
|------------------------------|-------------------------------------|-------------------------------|---|-----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| Composite | Impact resistance (200 J) | | | |
| SLIM CAP | • Free height after impact | 14,0 mm | ≥ 14 mm | 5.3.2.3 |
| toe-cap | Compression resistance (15 kN) | | | |
| | • Free height after compression | 14.5 mm | ≥ 14 mm | 5.3.2.4 |
| Sole (SRC) | Slip resistance | | | |
| | • SRA – Sole (entire sole) | 0,48 | ≥ 0,32 | 5.3.5.4 |
| | • SRA – Heel (Angle of 7°) | 0,45 | ≥ 0,28 | 5.3.5.4 |
| | • SRB – Sole (entire sole) | 0,22 | ≥ 0,18 | 5.3.5.4 |
| | • SRB – Heel (Angle of 7°) | 0,20 | ≥ 0,13 | 5.3.5.4 |
| Fresh'n Flex (P) | Puncture resistance | No perforation | ≥ 1100 N | 6.2.1.1.2 |
| Footbed (A) | Antistatic properties | | | |
| | • Electrical resistance | dry 4,0 x 10 ⁸ Ω | ≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω | 6.2.2.2 |
| | | humid 1.8 x 10 ⁸ Ω | ≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω | 6.2.2.2 |
| Sole/Upper | Thermal insulation | | | |
| Heat (HI) | Insole temperature increase | N/A | ≤ 22°C | 6.2.3.1 |
| Cold (CI) | Insole temperature decrease | N/A | ≤ 10°C | 6.2.3.2 |
| Heel (E) | Shock-absorption in the heel region | 35 J | ≥ 20 J | 6.2.4 |
| (WR) | Water resistance (Water absorption) | N/A | ≤ 3 cm ² | 6.2.5 |
| (M) | Metatarsal protection | N/A | ≥ 40 mm | 6.2.6 |

| Upper | | | | |
|------------|--------------------------|--------------------------|----------------------------|----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| | Tear resistance | 245 N | ≥ 60 N | 5.4.3 |
| Sublimated | Traction resistance | N/A | ≥ 15 N/mm ² | 5.4.4 |
| technical | Water steam permeability | 2,0 mg/cm ² h | ≥ 0.8 mg/cm ² h | 5.4.6 |
| textile | pH value | N/A | ≥ 3,2 | 5.4.7 |
| | Chromium VI | N/A | Not detectable | 5.4.9 |
| | Water passed | 0,0 g | ≤ 0.2 g | 6.3 |
| | Water absorption | 26% | ≤ 30% | 6.3 |

| Lining | | | | |
|-------------------|---------------------|---|-----------------------------|----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| 3D Hi Tech Fabric | Tear resistance | 47 N | ≥ 15 N | 5.5.1 |
| | Abrasion resistance | <ul style="list-style-type: none"> Dry : the surface shows no holes humid: the surface shows no holes | No holes till 51.200 cycles | 5.5.2 |
| | Water steam release | 21,1 mg/cm ² h | ≥ 2,0 mg/cm ² h | 5.5.3 |
| | pH value | N/A | Not detectable | 5.5.4 |
| | Chromium VI | N/A | Not detectable | 5.5.5 |

| Insole | | | | |
|--------------|--|-----------------------|-----------------------------|----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| Fresh'n Flex | Thickness | 3,7 mm | ≥ 2,0 mm | 5.7.1 |
| | pH value | N/A | Not detectable | 5.7.2 |
| | Water absorption | 86 mg/cm ² | ≥ 70 mg/cm ² | 5.7.3 |
| | Water release | 94 % | ≥ 80 % | 5.7.3 |
| | Abrasion resistance (after 400 cycles) | No damage | Damage ≤ to norms reference | 5.7.4.1 |
| | Chromium VI | N/A | Not detectable | 5.7.5 |

| Removable footbed* | | | | |
|---|---------------------|--------------|---|----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| Anatomical, breathable, textile and expanded polymeric material | Thickness | 3,5 ± 0,5 mm | N/A | 5.5.1 |
| | Ph value | N/A | Not detectable | 5.5.2 |
| | Water absorption | Permeable | Permeable or ≥ 70mg/cm ² | 5.5.3 |
| | Water release | Permeable | Permeable or ≥ 80% | 5.5.3 |
| | Abrasion resistance | No damage | Dry No holes till 25.600 cycles | 5.5.4.2 |
| | Chromium VI | N/A | Humid no holes till 12.800 cycles Not detectable | 5.7 |

*Footwear also certified with DRY'N AIR OMNIA, DRY'N AIR SCAN&FIT OMNIA, DRY'N AIR GEL.

| Sole | | | | | |
|---------------------|---------------------------------------|--|---|-----------------------|-------|
| Component | Description | Value | Norm Requirements | EN 20345 | |
| PU Monodensity Sole | Sole thickness without profiles | 6,5 mm | ≥ 4 mm | 5.8.1.1 | |
| | Profiles height | 4,5 mm | ≥ 2,5 mm | 5.8.1.3 | |
| | Tear resistance | 6,2 kN/m | ≥ 8 kN/m | 5.8.2 | |
| | Abrasion resistance | <ul style="list-style-type: none"> relative volume loss | 100 mm ³ | ≤ 250 mm ³ | 5.8.3 |
| | Flexion resistance | <ul style="list-style-type: none"> Notches increase after 30.000 cycles | 2,1 mm | ≤ 4 mm | 5.8.4 |
| | Hydrolysis | <ul style="list-style-type: none"> Notches increase after 150.00 cycles | 3 mm | ≤ 6 mm | 5.8.5 |
| | Outsole – insole detachment | N/A | ≥ 4 N/mm; (*) ≥ 3 N/mm with sole ripping | 5.8.6 | |
| | (HRO) Contact heat resistance (300°C) | N/A | No damage (melting, breaking) | 6.4.1 | |
| | (FO) Fuel resistance (volume changes) | 6 % | ≤ 12% | 6.4.2 | |

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