# TECHNICAL SHEET

## Article: B0666A GRAND CANYON

**Norm:** EN ISO 20345:2022

**Safety Class:** S1PS ESD FO SR

| | |
|---|---|
| **Sole** | S10 WEARECO |
| **Weight, size 42:** | 515 g |
| **Footwear height:** | 90 mm |
| **Width:** | 11 |
| **Construction / Sole:** | STROBEL; injected sole Airtech/Tpu-Skin ESD Weareco |
| **Anti-perforation insert** | Ballistic Fabric |
| **Insole:** | |
| **Footbed supplied:** | Dry'n air Record ESD Weareco |
| **Other usable Footbeds (certified):** | Dry'n Air Scan&Fit Record; Secosol; Secosol Dynamic |
| **ESD Protection for electronic devices** | CEI EN 61340-4-3:2018; CEI EN 61340-4-5:2018; CEI EN 61340-5-1:2016 |

## ESD Protection (Electrostatic discharges) for electronic devices

## Suitable for use in EPA areas (Electrostatic discharges protected area)

| Component | Description | Value | Minimum Requirement | Norm |
|---|---|---|---|---|
| Entire ESD footwear | Sole electrical ground resistance (resistance of the whole worn footwear / metal floor ) | 6,56 x $10^7$ Ω | < 1,00 x $10^9$ Ω | CEI EN 61340-5-1 |
| | Sole electrical transversal resistance (footwear resistance) | 6,75 x $10^7$Ω | ≤ 1,00 x $10^8$ Ω | CEI EN 61340-5-1 |
| | Chargeability | 9,15 V | < 100 V | CEI EN 61340-5-1 |

## Entire footwear: protections

| Component | Description | Value | Minimum Requirement | Norm |
|---|---|---|---|---|
| SlimCap toe-cap | Impact Resistance (200J) | 16,0 mm | ≥ 14,0 mm | 5.3.2.3 |
| | Compression Resistance (15 kN) | 17,0 mm | ≥14,0 mm | 5.3.2.4 |
| Outsole (SR) | Slip Resistance 20345:2022 | | | |
| | •Ceramic + Det. - Hill | 0,43 | ≥ 0.31 | 5.3.5.2 |
| | •Ceramic + Det. + Tip | 0.47 | ≥ 0,36 | 5.3.5.2 |
| | •Ceramic + Glycerin (SR) - Hill | 0,23 | ≥ 0,19 | 6.2.10.1 |
| | •Ceramic + Glycerin (SR) - Tip | 0,26 | ≥ 0,22 | 6.2.10.1 |
| Outsole (SRC) | Slip resistance 20345:2011 | | | |
| | •SRA – Hill (angle of 7°) | 0,49 | ≥ 0,28 | 5.3.5.2 |
| | •SRA – sole (full sole) | 0,42 | ≥ 0,32 | 5.3.5.2 |
| | •SRB – Hill (angle of 7°) | 0,26 | ≥ 0,13 | 5.3.5.3 |
| | •SRB – Sole (Full sole) | 0,21 | ≥ 0,18 | 5.3.5.3 |
| Fresh'n Flex ESD Weareco (P) | Puncture resistance. 20345:2011 | No perforation | No perforation at ≥ 1100N | 6.2.1.1.1 |
| | Puncture resistance. 20345:2022 | 1288 N | Average value ≥1100N; Single value ≥950N | 6.2.1.1.4 |
| Energy absorption (E) | Shock-absorption in the heel region | 33 J | ≥ 20 J | 6.2.4 |

## Upper

| Materials | Description | Value | Minimum Requirement | Norm |
|---|---|---|---|---|
| Technical fabric Weareco | Tear resistance | 202 N | ≥ 60 N | 5.4.3 |
| | Traction resistance | N/A | ≥ 15 N/mm² | 5.4.4 |
| | Water steam permeability | 11,9 mg/cm² h | ≥ 0,8 mg/cm² h | 5.4.6 |
| | Water steam coefficient | 97,3 mg/cm² | ≥ 15,0 mg/cm² | 5.4.6 |
| | Chromium VI content (if leather) | N/A | Not detectable | 5.4.9 |
| | Water passed | N/A | ≤ 0,2 g | 6.3 |
| | Water absorption | N/A | ≤ 30% | 6.3 |

## Lining

| Materials | Description | Value | Minimum Requirement | Norm |
|---|---|---|---|---|
| 3D Hi-Tech Weareco Lining | Tear resistance | 53 N | ≥ 15 N | 5.5.1 |
| | Abrasion resistance | • No dry hole | No holes before 51,200 cycles | 5.5.2 |
| | | • No hole in humid environment | No holes before 25,600 cycles | 5.5.2 |
| | Water steam permeability | 26,6 mg/cm² h | ≥ 2,0 mg/cm² h | 5.5.3 |
| | Chromium VI content (if leather) | N/A | Not detectable | 5.5.5 |

**Issued by: Innovation Director Ing. Cataldo De Luca** **Signature**

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