

TECHNICAL SHEET



| | |
|---------------------------|--|
| Article: | B0153 TERMINI |
| Norm: | EN ISO 20345:2011 |
| Safety Class: | S3 SRC |
| Footwear height: | Mod. A, H 92 mm (< 113 mm, Rif. EN 20345-5.2.2) |
| Width: | 11 |
| Construction: | STROBEL; 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, construction, light industry, logistics. |

| Entire footwear: protections | | | | |
|------------------------------|---|---|---|-----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| Steel | Impact resistance(200 J) | | | |
| Toe-cap | <ul style="list-style-type: none"> Free height after impact | 14,5 mm | ≥ 14 mm | 5.3.2.3 |
| | <ul style="list-style-type: none"> Compression resistance (15 kN) Free height after compression | 15 mm | ≥ 14 mm | 5.3.2.4 |
| Sole (SRC) | Slip resistance | | | |
| | <ul style="list-style-type: none"> SRA – Sole (entire sole) | 0,44 | ≥ 0,32 | 5.3.5.4 |
| | <ul style="list-style-type: none"> SRA – Heel (Angle of 7°) | 0,42 | ≥ 0,28 | 5.3.5.4 |
| | <ul style="list-style-type: none"> SRB – Sole (entire sole) | 0,20 | ≥ 0,18 | 5.3.5.4 |
| | <ul style="list-style-type: none"> SRB – Heel (Angle of 7°) | 0,18 | ≥ 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 | | | |
| | <ul style="list-style-type: none"> Electrical resistance | dry 10,0 x 10 ⁸ Ω | ≥ 10 ⁵ Ω , ≤ 10 ⁹ Ω | 6.2.2.2 |
| | | humid 9,80 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 | 26 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 | 170 N | ≥ 120 N | 5.4.3 |
| Grain | Traction resistance | N/A | ≥ 15 N/mm ² | 5.4.4 |
| leather | Water steam permeability | 2,2 mg/cm ² h | ≥ 0.8 mg/cm ² h | 5.4.6 |
| | pH value | 3,8 | ≥ 3,2 | 5.4.7 |
| | Chromium VI | Not detected | No detectable | 5.4.9 |
| | Water passed | 0,1 g | ≤ 0.2 g | 6.3 |
| | Water absorption | 9 % | ≤ 30% | 6.3 |
| Lining | | | | |
| Component | Description | Value | Norm Requirements | EN 20345 |
| | Tear resistance | 30 N | ≥ 15 N | 5.5.1 |
| | Abrasion resistance | <ul style="list-style-type: none"> Dry : the surface shows no holes | No holes till 51.200 cycles | 5.5.2 |
| | | <ul style="list-style-type: none"> humid: the surface shows no holes | No holes till 25.600 cycles | 5.5.2 |
| 3D Hi-Tech | Water steam release | 7,2 mg/cm ² h | ≥ 2,0 mg/cm ² h | 5.5.3 |
| Fabric | pH value | N/A | No detectable | 5.5.4 |
| | Chromium VI | N/A | No detectable | 5.5.5 |

| Insole | | | | |
|---------------|--|------------------------|-----------------------------|----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| Fresh n' flex | Thickness | 3,5 mm | ≥ 2,0 mm | 5.7.1 |
| | pH value | N/A | No detectable | 5.7.2 |
| | Water absorption | 109 mg/cm ² | ≥ 70 mg/cm ² | 5.7.3 |
| | Water release | 100 % | ≥ 80 % | 5.7.3 |
| | Abrasion resistance (after 400 cycles) | No damage | Damage ≤ to norms reference | 5.7.4.1 |
| | Chromium VI | N/A | No 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 | 5.7.1 |
| | pH value | N/A | No detectable | 5.7.2 |
| | Water absorption | Permeable | Permeable or ≥ 70mg/cm ² | 5.7.3 |
| | Water release | Permeable | Permeable or ≥ 80% | 5.7.3 |
| | Abrasion resistance | No damage | Dry No holes till 25.600 cycles Humid no holes till 12.800 cycles | 5.7.4.2 |
| | Chromium VI | N/A | No detectable | 5.7.5 |

| Sole | | | | |
|---------------------------------------|--|-------------------------------|---|----------|
| Component | Description | Value | Norm Requirements | EN 20345 |
| PU Monodensity Sole | Sole thickness without profiles | 9 mm | ≥ 4 mm | 5.8.1.1 |
| | Profiles height | 4 mm | ≥ 2,5 mm | 5.8.1.3 |
| | Tear resistance | 5,7 kN/m | ≥ 8 kN/m | 5.8.2 |
| | Abrasion resistance | 164 mm ³ | ≤ 250 mm ³ | 5.8.3 |
| | • relative volume loss | | | |
| | Flexion resistance | 1,5 mm | ≤ 4 mm | 5.8.4 |
| | • Notches increase after 30.000 cycles | | | |
| | Hydrolysis | 2 mm | ≤ 6 mm | 5.8.5 |
| | • Notches increase after 150.00 cycles | | | |
| | 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) | 0,1 % | ≤ 12% | 6.4.2 | |

Date: 02/04/2013

Copy in accordance with the Italian sheet