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# FLEXOR S1 PL FO SC SR ESD

| DESCRIPTION | NORM EN ISO 20345:2022 + A1:2024 | RESULT | REQUIREMENT |
|---|---|---|---|
| **UPPER**: Suede leather and breathable fabric | 5.4.3 Tear strength<br>5.4.6 Water vapor permeability<br>Coefficient | 65 N<br>4,6 mg/cm²h<br>38,1 mg/cm² | ≥120 N<br>≥ 0,8 mg/cm²h<br>≥ 15,0 mg/cm² |
| **VAMP LINING**: 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<br>Coefficient | 96 N<br>No holes<br>No holes<br>23,6 mg/cm²h<br>188,9 mg/cm² | ≥ 15 N<br>25.600 cycles<br>51.200 cycles<br>≥ 2,0 mg/cm²<br>≥20,0 mg/cm² |
| **QUARTER LINING:** 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<br>Coefficient | 32 N<br>No holes<br>No holes<br>126,4 mg/cm²h<br>1011,6 mg/cm² | ≥ 15 N<br>25.600 cycles<br>51.200 cycles<br>≥ 2,0 mg/cm²<br>≥20,0 mg/cm² |
| **COUNTER LINING:** 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<br>Coefficient | 32 N<br>No holes<br>No holes<br>15,2 mg/cm2h<br>122,6 mg/cm2 | ≥ 15 N<br>25.600 cycles<br>51.200 cycles<br>≥ 2,0 mg/(cm²h)<br>≥20,0 mg/cm² |
| **SAFETY TOE CAP:** 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 |

**EXENA SRL**
via Breda 20
62012 Civitanova M. MC
ITALY

REA MC144207
Reg. Impr. Trib. MC 01336080435
C.F. e P. IVA 01336080435
Cap. Soc. € 25.823,00 i.v.

+39 0733 89 72 56
info@exena.com
amministrazione@pec.exena.it

exena.com

exena.

| | | | |
|---|---|---|---|
| **PIERCE-RESISTANCE:** Class PL anti-perforation fabric | 6.2.1.1.3 Resistance to perforation | PASS | Min.1100 N |
| **FOOTBED**: Removable, cushioned, antistatic insole. | 5.7.4.2 Abrasion resistance (dry) | NO HOLES | 25.600 cycles |
| | Abrasion resistance (wet) | NO HOLES | 12.800 cycles |
| **OUTSOLE :** 3 density polyurethane with Etpu insert | 5.8.3 Tear strength | 8,4 kN/m | ≥ 8 kN/m |
| | 5.8.4 Abrasion resistance | 77 $mm^3$ | ≤ 150 $mm^3$ |
| | 5.8.5 Flexing resistance | 2,1 mm | ≤ 4,0 mm |
| | 5.8.6 Hydrolysis | 2,5 mm | ≤ 6,0 mm |
| | 6.4.2 Oils resistance | 1,3 % | ≤ 12% |
| | 6.2.10 Slip resistance on ceramic with glycerin | | |
| | (tilted towards the heel of 7°) | 0,22 | ≥ 0,19 |
| | (tilted towards the tip of 7°) | 0,25 | ≥ 0,22 |
| | 5.3.5.2 Slip resistance on ceramic with cleaning agent | | |
| | (tilted towards the heel of 7°) | 0,34 | ≥ 0,31 |
| | (tilted towards the tip of 7°) | 0,39 | ≥ 0,36 |
| | 6.2.2.2 Antistatic | dry: 51,8 MΩ<br>wet: 5,87 MΩ | 0,1 ÷ 1000 MΩ<br>0,1 ÷ 1000 MΩ |

**SIZES: 35-48**

**WEIGHT:**

| **35** | **36** | **37** | **38** | **39** | **40** | **41** | **42** | **43** | **44** | **45** | **46** | **47** | **48** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700 | 759 | 818 | 877 | 936 | 995 | 1054 | 1113 | 1172 | 1231 | 1290 | 1349 | 1408 | 1467 |

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| Hartmann | Technical Specification (TSF) | |
|---|---|---|
| Product: | Secosol individual, milled | |

1. Productspecification:

| | |
|---|---|
| **Product name** | Secosol individual, milled |
| **Manufacturing process** | milled |
| **Article codes** | 9516 1411, 9516 1111, 9516 1211, 9516 1311, 9516 1511, 9516 1611,<br>9516 1412, 9516 1112, 9516 1212, 9516 1312, 9516 1512, 9516 1612,<br>9516 1421, 9516 1121, 9516 1221, 9516 1321, 9516 1521, 9516 1621,<br>9516 1422, 9516 1122, 9516 1222, 9516 1322, 9516 1522, 9516 1622 |
| **Sizes** | 35 - 50 |
| **Versions** | <br> |
| **Antistatic Values:** | 0,1 MOhm (Max. 10 MOhm) |

2. Cover

| **Material** | | Toleranz |
|---|---|---|
| **Covers:** | | |
| **Shore hardness Cover-EVA (Textil cover):** | 35Sh° | 35Sh° - 40Sh° |
| **Shore hardness Cover EVA (EVA Cover):** | 45Sh° | 40Sh° - 50Sh° |
| **Material Surface finishing:** | Textil/EVA – ESD | - |
| **Textil cover testreport no. PFI:** | 2501712-05-00-01<br>2501712-06-00-01 | |

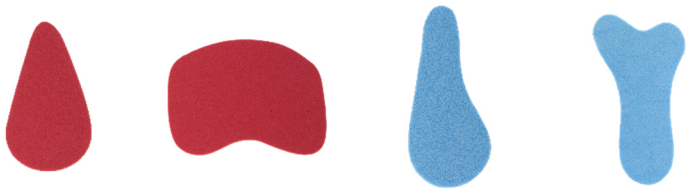
| Hartmann | Technical Specification (TSF) | |
|---|---|---|
| Product: | Secosol individual, milled | |

| | | |
|---|---|---|
| **Perforation cover:** | Yes; MK1A1 | - |
| **Thickness Cover:** | 3 mm | 2,5 - 3,2 mm |

3. Substructure

| **Substructure:** | | |
|---|---|---|
| **Shore hardness EVA:** | 35Sh°/45Sh° | - |
| **Thickness hindfoot:** | 4,6 mm – 15 mm | - |
| **Material Substructure** | EVA antistatic | |

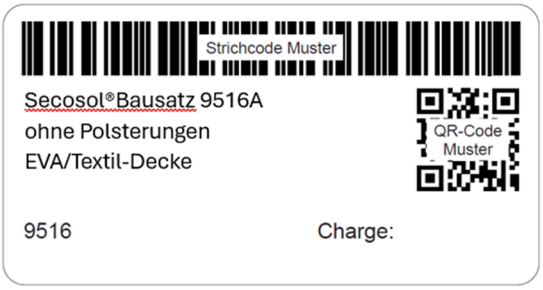
4. Pads

| **Shore hardness Shock absorber red:** | 25Sh° | 23Sh° - 27Sh° |
|---|---|---|
| **Shore hardness Shock absorber azur blue:** | 14Sh° | 10Sh° - 18Sh° |
| **Pads (option:)** | *4041020511* *4041020511* *4021010606* *4021010606*  | |

5. Package
   a. Product package

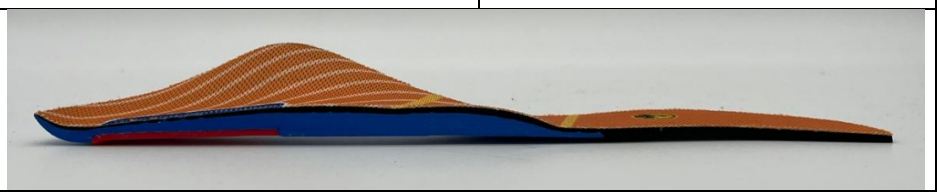
| **Polybag** | |
|---|---|

| Hartmann | Technical Specification (TSF) | |
|---|---|---|
| Product: | Secosol individual, milled | |

| **Label:** |  |
|---|---|

| Hartmann | Technical specification (TSF) | |
|---|---|---|
| Product: | Secosol KIT | |

1. Product specification:

| **Product name:** | Secosol Kit, EVA | Secosol KIT, Textil |
|---|---|---|
| **Manufacturing process** | thermomoulding | thermomoulding |
| **Material no.:** | 0000000471.XX | 0000000472.XX |
| **Articlecode:** | 9516 2311 | 9516 2312 |
| **Sizes:** | 35 - 50 | 35 - 50 |
| **Version:** | | |
| **Cross-section:** |  | |

2. Cover

| **Material** | | Tolerance |
|---|---|---|
| **Cover-version:** | | |
| **Shore hardness Cover-EVA (Textil cover):** | 35Sh° | 35Sh° - 40Sh° |
| **Shore hardness Cover-EVA (EVA cover):** | 45Sh° | 40Sh° - 50Sh° |
| **Material Surface finshing:** | Textil/EVA – ESD | - |
| **Textil cover testreport no. PFI:** | 2501712-03-00-01 | |
| **Perforation cover:** | yes; MK1A1 | - |
| **Thickness cover:** | 3 mm | 2,5 - 3,2 mm |

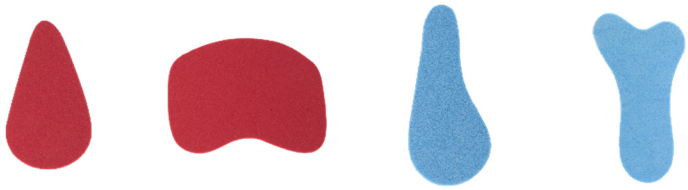
3. Substructure

| **Substructure:** | |
|---|---|

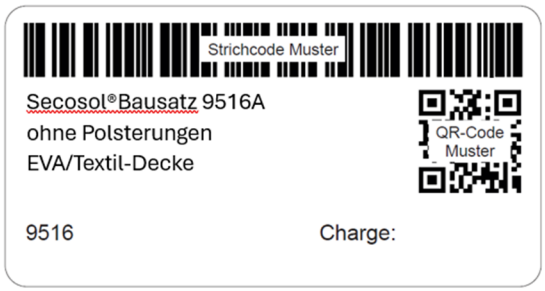
| Hartmann | Technical specification (TSF) | |
|---|---|---|
| Product: | Secosol KIT | |

| | | |
|---|---|---|
| **Shore Hardness EVA:** | 35Sh° | - |
| **Thickness Hindfoot:** | 4,6 mm – 15 mm | - |
| **Material Substructure** | EVA antistatic | |

4. Pads

| | | |
|---|---|---|
| **Shore hardness Shock absorber red:** | 25Sh° | 23Sh° - 27Sh° |
| **Shore hardness Shock absorber azur blue:** | 14Sh° | 10Sh° - 18Sh° |
| **Pads (optional):** | *4041020511* *4041020511* *4021010606* *4021010606*  | |

5. Package

| | |
|---|---|
| **package:** | |
| **Label:** |   |