

exena.

PULSE S1 PL FO SC SR ESD



DESCRIPTION	NORM EN ISO 20345:2022 + A1:2024	RESULT	REQUIREMENT
UPPER: Perforated suede leather	5.4.3 Tear strength 5.4.6 Water vapor permeability Coefficient	229 N 5,6 mg/cm ² h 45,5 mg/cm ²	≥120 N ≥ 0,8 mg/cm ² h ≥ 15,0 mg/cm ²
VAMP LINING: Breathable, abrasion resistant textile	5.5.2 Tear strength 5.5.3 Abrasion resistance (Wet) Abrasion resistance (Dry) 5.5.4 Water vapor permeability Coefficient	42 N No holes No holes 139,2 mg/cm ² h 1113,9 mg/cm ²	≥ 15 N 25.600 cycles 51.200 cycles ≥ 2,0 mg/cm ² ≥20,0 mg/cm ²
QUARTER LINING: Breathable, abrasion resistant textile	5.5.2 Tear strength 5.5.3 Abrasion resistance (Wet) Abrasion resistance (Dry) 5.5.4 Water vapor permeability Coefficient	32 N No holes No holes 126,4 mg/cm ² h 1011,6 mg/cm ²	≥ 15 N 25.600 cycles 51.200 cycles ≥ 2,0 mg/cm ² ≥20,0 mg/cm ²
COUNTER LINING: Breathable, abrasion resistant textile	5.5.2 Tear strength 5.5.3 Abrasion resistance (Wet) Abrasion resistance (Dry) 5.5.4 Water vapor permeability Coefficient	32 N No holes No holes 15,2 mg/cm ² h 122,6 mg/cm ²	≥ 15 N 25.600 cycles 51.200 cycles ≥ 2,0 mg/(cm ² h) ≥20,0 mg/cm ²
SAFETY TOE CAP: Fiberglass 200J	5.3.2.6 Impact resistance 5.3.2.7 Compression resistance	16,0 mm 16,0 mm	≥ 14 mm ≥ 14 mm

EXENA SRL
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62012 Civitanova M. MC
ITALY

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C.F. e P. IVA 01336080435
Cap. Soc. € 25.823,00 iv.

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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 wet: 5,87 MΩ	0,1 ÷ 1000 MΩ 0,1 ÷ 1000 MΩ

SIZES: 35-48

WEIGHT:

35	36	37	38	39	40	41	42	43	44	45	46	47	48
781	840	899	958	1017	1076	1135	1194	1253	1312	1371	1430	1489	1548

 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, 9516 1412, 9516 1112, 9516 1212, 9516 1312, 9516 1512, 9516 1612, 9516 1421, 9516 1121, 9516 1221, 9516 1321, 9516 1521, 9516 1621, 9516 1422, 9516 1122, 9516 1222, 9516 1322, 9516 1522, 9516 1622
Sizes	35 - 50
Versions	 
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 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

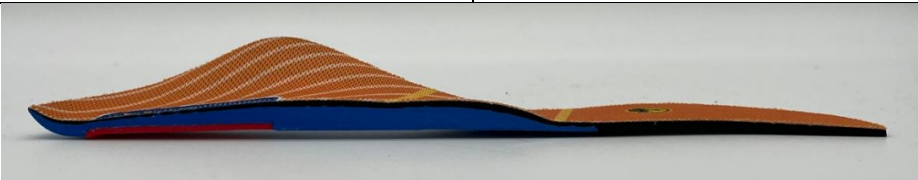
Polybag	
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 Hartmann	Technical Specification (TSF)	
Product:	Secosol individual, milled	

Label:	<div data-bbox="651 275 1193 555">  <div data-bbox="858 309 991 331">Strichcode Muster</div> <p> <u>Secosol®Bausatz 9516A</u> ohne Polsterungen EVA/Textil-Decke </p> <div data-bbox="1066 360 1174 465">  <div data-bbox="1086 394 1153 432">QR-Code Muster</div> </div> <p> 9516 Charge: </p> </div>
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 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 finishing:	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:	
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 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
			
			

5. Package

package:	
Label:	<div>   </div> <p>Strichcode Muster</p> <p>Secosol®Bausatz 9516A ohne Polsterungen EVA/Textil-Decke</p> <p>9516 Charge:</p>