



safety shoes  
**SINCE**  
**1987**

### **Lewer Calzature Tecniche srl**

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## TECNICAL SPECIFICATIONS

**Article** 509 S3L FO SR **Size:** 35/48  
**Mondopoint** 11  
**Model description:** High shoes, Full-grain leather

**Care and Maintenance:** Use brush with soft bristles.  
do not use alcohol, petrol-oil or other chemicals.  
keep in cool and dry place.



|                   | MATERIALS                                                                  | Norm    | EN ISO 20345:2022                                         | U.M.                                         | Risultato                                                  | Requisito      |
|-------------------|----------------------------------------------------------------------------|---------|-----------------------------------------------------------|----------------------------------------------|------------------------------------------------------------|----------------|
| Protective device | Toe protection: composit toe cap, anticorrosive, 200 Joule crash resistant | 5.3.2.2 | crash resistant                                           | mm                                           | 14,5                                                       | >14            |
|                   |                                                                            | 5.3.2.3 | compression resistant                                     | mm                                           | 14,5                                                       | > 14           |
|                   | antiperforation non metal insole                                           | 6.2.1.1 | resistant to perforation                                  | no perforation                               |                                                            | >1100          |
|                   | antistatic sole able to dissipate elettrostatic charges.                   |         |                                                           |                                              |                                                            |                |
|                   |                                                                            | 6.2.2.2 | Elettrical resistance<br>in a wet environment<br>- in dry | 10 <sup>8</sup> Ω<br>10 <sup>8</sup> Ω       | 5,81<br>2,47                                               |                |
| Upper             | Full-grain leather leather thickness 1,8-2,0 mm                            | 5.4.3   | tear resistance                                           | N                                            | 156                                                        | >60            |
|                   |                                                                            | 5.4.6   | permeability to steam<br>steam coefficient                | mg/(cm <sup>2</sup> )h<br>mg/cm <sup>2</sup> | 3,4<br>35,6                                                | > 0,8<br>>15,0 |
|                   |                                                                            | 6.3.1   | water penetration                                         | %                                            | 0                                                          | < 2            |
|                   |                                                                            | 6.3.1   | water absorption                                          | %                                            | 18                                                         | < 30           |
|                   |                                                                            | 5.5.1   | tear resistance                                           | N                                            | 20                                                         | >15            |
| Lining            | Air Plus highly perspiring tear resistant                                  | 5.5.2   | abrasion resistance<br>in a wet environment<br>- in dry   |                                              | no hole after 51.200 cicles<br>no hole after 25.600 cicles |                |
|                   |                                                                            | 5.5.3   | permeability to steam<br>steam coefficient                | mg/(cm <sup>2</sup> h)<br>mg/cm <sup>2</sup> | 7,2<br>57,6                                                | >2<br>>20      |

| Article               | 509 S3L FO SR                                                                                          | Norm    | EN ISO 20345:2022                                       |                                                            |      |        |
|-----------------------|--------------------------------------------------------------------------------------------------------|---------|---------------------------------------------------------|------------------------------------------------------------|------|--------|
| <b>Tongue</b>         | synthetic                                                                                              | 5.6.1   | tear resistance                                         | N                                                          | 36   | > 18   |
| <b>Insole</b>         | antistatic material,thickness 3,5mm tear resistant                                                     | 5.7.1   | thickness                                               | mm                                                         | 3,7  | > 2    |
|                       |                                                                                                        | 5.7.3   | water absorption                                        | mg/cm^2                                                    | 81   | > 70   |
|                       |                                                                                                        | 5.7.3   | desorption of water                                     | %                                                          | 94   | > 80   |
| <b>FUSS-BET</b>       | 100% PU antistatic and antibacterial                                                                   | 5.7.2   | water absorption                                        | permeable                                                  |      |        |
|                       |                                                                                                        | 5.7.4.2 | abrasion resistance<br>in a wet environment<br>- in dry | no hole after 51.200 cicles<br>no hole after 25.600 cicles |      |        |
| <b>Sole</b>           | antistatic PU directly injected on the upper.<br>anti-slipping,tear resistant, oil and acid resistant. | 5.8.1.1 | sole d1                                                 |                                                            | 4,5  | > 4    |
|                       |                                                                                                        | 5.8.1.3 | sole d2                                                 |                                                            | 3    | > 2,5  |
|                       |                                                                                                        | 5.8.2   | tear resistance                                         | kn/m                                                       | 5,8  | > 5    |
|                       |                                                                                                        | 5.8.3   | abrasion resistance<br>(volume loss)                    | mm^3                                                       | 158  | < 250  |
|                       |                                                                                                        | 5.8.4   | flex resistance<br>(enlargement cutting)                | mm                                                         | 2,5  | < 4    |
|                       |                                                                                                        | 5.8.5   | hydrolysis                                              | mm                                                         | 1,5  | < 6    |
|                       |                                                                                                        | 5.8.6   | detachment between layers                               | N/mm                                                       | 3,5  | > 3    |
|                       |                                                                                                        | 5.3.5.4 | Sole (SRC) SRA - sole of teh foot<br>slip resistance    |                                                            | 0,45 | > 0,32 |
|                       |                                                                                                        | 5.3.5.4 | Sole (SRC) SRA - heel (angle di 7°)<br>slip resistance  |                                                            | 0,36 | > 0,28 |
|                       |                                                                                                        | 5.3.5.4 | Sole (SRC) SRA - sole of teh foot<br>slip resistance    |                                                            | 0,22 | > 0,18 |
|                       |                                                                                                        | 5.3.5.4 | Sole (SRC) SRB - heel (angle di 7°)<br>slip resistance  |                                                            | 0,16 | > 0,13 |
| <b>Shock absorber</b> | Double Density                                                                                         | 6.2.4   | shock absorber in the heel zone                         | J                                                          | 33   | >20    |
|                       |                                                                                                        | 6.4.2   | oil resistant<br>(volume variation)                     | %                                                          | 0,2  | < 12%  |
| <b>Production</b>     | 100% Italian                                                                                           |         |                                                         |                                                            |      |        |