



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

**Lewer Calzature Tecniche srl**

Contrada Bagni - 84020 - Colliano (SA) - Italy

e.mail: [info@lewer.it](mailto:info@lewer.it) - web site: [www.lewer.it](http://www.lewer.it)

## TECNICAL SPECIFICATIONS



**Article** 409 S3L FO SR **Size:** 35/48

**Mondopoint** 11

**Model description:** Low 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

**Protective device** Toe protection: composit toe cap, anticorrosive, 200 Joule crash resistant  
  
antiperforation non metal insole  
antistatic sole able to dissipate elettrostatic charges.

| Norm    | EN ISO 20345:2022        | U.M.                        | Risultato | Requisito |
|---------|--------------------------|-----------------------------|-----------|-----------|
| 5.3.2.2 | crash resistant          | mm                          | 14,5      | >14       |
| 5.3.2.3 | compression resistant    | mm                          | 14,5      | > 14      |
| 6.2.1.1 | resistant to perforation | no perforation              |           | >1100     |
| 6.2.2.2 | Elettrical resistance    |                             |           |           |
|         | in a wet environment     | 10 <sup>8</sup> Ω           | 5,81      |           |
|         | - in dry                 | 10 <sup>8</sup> Ω           | 2,47      |           |
| 5.4.3   | tear resistance          | N                           | 156       | >60       |
| 5.4.6   | permeability to steam    | mg/(cm <sup>2</sup> )h      | 3,4       | > 0,8     |
|         | steam coefficient        | mg/cm <sup>2</sup>          | 35,6      | >15,0     |
| 6.3.1   | water penetration        | %                           | 0         | < 2       |
| 6.3.1   | water absorption         | %                           | 18        | < 30      |
| 5.5.1   | tear resistance          | N                           | 20        | >15       |
| 5.5.2   | abrasion resistance      |                             |           |           |
|         | in a wet environment     | no hole after 51.200 cicles |           |           |
|         | - in dry                 | no hole after 25.600 cicles |           |           |
| 5.5.3   | permeability to steam    | mg/(cm <sup>2</sup> h)      | 7,2       | >2        |
|         | steam coefficient        | mg/cm <sup>2</sup>          | 57,6      | >20       |

**Upper** Full-grain leather leather thickness 1,8-2,0 mm

**Lining** Air Plus highly perspiring tear resistant

| Articolo              | 409 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                                                                                           |         |                                                         |           |                                                            |        |