

|                           |               |
|---------------------------|---------------|
| Article                   | MUNICH        |
| Category                  | S3 CI HRO SRC |
| Sizes                     | 38 - 47       |
| Width                     | 11            |
| Weight (half pair, sz 42) | 710 gr        |
| Metal free                | Yes           |
| Certification             | CE            |



## RAIN & COLD

|                                 |                                                                                                                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UPPER</b>                    | water resistant full grain leather. Side zip for easy pull on                                                                                                                                                                      |
| <b>LINING</b>                   | Synthetic fur for thermal insulation                                                                                                                                                                                               |
| <b>TOE CAP</b>                  | non-magnetic toecap, from composite materials. 50% lighter then steel                                                                                                                                                              |
| <b>ANTI-PERFORATION MIDSOLE</b> | non-magnetic, perforation resistance composite fabric plate. It is 40% lighter and more flexible than steel plate and at the same time guarantees an optimal protection covering 100% of the foot surface. Certified EN 12568:2010 |
| <b>FOOTBED</b>                  | insole PU 10mm expanded, covered with antibacterial fabric                                                                                                                                                                         |
| <b>SOLE</b>                     | PU/Vibram® rubber with high profile and deep tread for extreme condition of use. Resistant to heat contact up to 300 °C                                                                                                            |

|                                                    | Requirements      | Test    |
|----------------------------------------------------|-------------------|---------|
|                                                    | EN ISO 20345:2011 | Results |
| <b>UPPER</b>                                       |                   |         |
| Water Vapour Permeability                          | mg/cmq*h ≥ 0,8    | 5,7     |
| Water Vapour Coefficient                           | mg/cmq ≥ 15       | 53,3    |
| <b>LINING</b>                                      |                   |         |
| Water Vapour Permeability                          | mg/cmq*h ≥ 2      | 7,7     |
| Water Vapour Coefficient                           | mg/cmq ≥ 20       | 71,6    |
| <b>TOECAP</b>                                      |                   |         |
| Impact resistance: clearance under the toecap      | mm ≥ 14           | 15      |
| Compression resistance: clearance under the toecap | mm ≥ 14           | 15,5    |
| <b>ANTI-PERFORATION MIDSOLE</b>                    |                   |         |
| Penetration resistance (EN ISO 12568:2010)         | N ≥ 1100          | ≥ 1100  |
| <b>ELECTRICAL RESISTANCE</b>                       |                   |         |
| - wet condition (85% relative humidity)            | MΩ ≥ 0,1          | 71      |
| - dry condition (30% relative humidity)            | MΩ ≤ 1000         | 450     |
| <b>SOLE</b>                                        |                   |         |
| Abrasion resistance: relative volume loss          | mm' ≤ 150         | 50      |
| Flexing resistance: cut growth                     | mm ≤ 4            | 1,5     |
| Resistance to fuel oil: volume increase            | % ≤ 12            | 1       |
| Energy absorption of seat region                   | J ≥ 20            | 36      |
| Slip resistance on steel ground with glycerine     | 7° Heel ≥ 0,13    | 0,15    |
|                                                    | Flat ≥ 0,18       | 0,19    |
| Slip resistance on ceramics ground with detergent  | 7° Heel ≥ 0,28    | 0,34    |
|                                                    | Flat ≥ 0,32       | 0,46    |

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