



# TECHNICAL DATA SHEET

## StepliteX SolidGrip O4 black/black

### General information

| Size range                                                                           |               |
|--------------------------------------------------------------------------------------|---------------|
| • EU                                                                                 | 36 - 49       |
| • UK                                                                                 | 3.5 - 15      |
| • US                                                                                 | 4 - 16        |
| The testresults in this technical datasheet are performed on size EU 42, UK 8, US 9. |               |
| Weight / pair                                                                        |               |
| • Safety level: Non-safety                                                           | ± 53.26 oz    |
| Colors                                                                               |               |
|                                                                                      |               |
|                                                                                      | black - black |

### Upper

| A. Dimensions       |                                             |
|---------------------|---------------------------------------------|
| • Height            | outer measure: 14.2 - 15.4 in               |
|                     | cutting edge: 10.4 - 11.4 in                |
| • Foot length       | outer measure: 11.8 in                      |
|                     | inner measure: 11.0 in                      |
| B. Thickness        |                                             |
| • Upper edge        | 0.10 - 0.12 in                              |
| • Calf              | 0.11 - 0.13 in                              |
| • Shinbone          | 0.11 - 0.14 in                              |
| • Ankle             | 0.17 - 0.21 in                              |
| • Heel              | 0.22 - 0.24 in                              |
| C. Raw material     |                                             |
|                     | NEOTANE (proprietary polyurethane compound) |
| D. Density          |                                             |
|                     | 86.8 - 93.5 oz/gallon                       |
| E. Tensile strength |                                             |
| (incl. lining)      | 1450 ± 290 psi                              |
| F. Elongation       |                                             |
| (incl. lining)      | 600 +/- 100%                                |

| G. Hardness                  |                                |                   |
|------------------------------|--------------------------------|-------------------|
|                              | 43 +/- 2 Sh A                  |                   |
| H. Tear strength             |                                |                   |
| (incl. lining) lbf/in        | 57.1 ± 11.4 lb/in              |                   |
| I. Aging                     |                                |                   |
| (incl. lining)               | 7 days at 158 °F               | 14 days at 158 °F |
| • Tensile strength           | 1682.4 psi                     | 1305.3 psi        |
| • Elongation                 | 580 ± 20%                      | 600 ± 20%         |
| • Tear strength              | 65.1 lb/in                     | 51.4 lb/in        |
| J. Chemical resistance       |                                |                   |
|                              | see detailed list              |                   |
| K. Environmental temperature |                                |                   |
| • Maximum                    | ± 212 °F                       |                   |
| • Minimum                    | Cold insulation down to -22 °F |                   |

Lining

| A. Material |                                |
|-------------|--------------------------------|
|             | PU coating on polyester fabric |
| B. Seams    |                                |
|             | Welded and knitted seams       |

## Outsole profile

|                                         |                                                |         |
|-----------------------------------------|------------------------------------------------|---------|
|                                         |                                                |         |
| A. Dimensions                           |                                                |         |
| • Heel                                  |                                                |         |
| • Thickness                             | (a)                                            | 1.6 in  |
| • Profile depth                         | (b)                                            | 0.57 in |
| • Length                                | (c)                                            | 4.0 in  |
| • Width                                 |                                                | 3.4 in  |
| • Middle foot                           |                                                |         |
| • Height                                | (d)                                            | 0.65 in |
| • Ladder anti-slip grips                | (e)                                            | 0.17 in |
| • Outsole                               |                                                |         |
| • Thickness                             | (f)                                            | 1.3 in  |
|                                         | (g)                                            | 1.2 in  |
|                                         | (h)                                            | 0.87 in |
| • Profile depth                         | (i)                                            | 0.35 in |
| B. Raw material                         |                                                |         |
|                                         | NEOTANE (proprietary polyurethane compound)    |         |
| C. Density                              |                                                |         |
|                                         | 6.5 - 7.0 ppg (imp.)                           |         |
| D. Mechanical characteristics           |                                                |         |
|                                         | See upper (E)-(F)-(H)                          |         |
| E. Energy absorption of the seat region |                                                |         |
|                                         | 30-40 J (requirement ≥ 20 J)                   |         |
| F. Antistatic                           |                                                |         |
|                                         | dry: 1x10 <sup>8</sup> - 1x10 <sup>9</sup> Ohm |         |
|                                         | wet: 1x10 <sup>7</sup> - 1x10 <sup>9</sup> Ohm |         |
| G. Abrasion resistance                  |                                                |         |
|                                         | 0.0031 in <sup>3</sup>                         |         |
| H. Hardness                             |                                                |         |
|                                         | 60 +/- 10 Sh A                                 |         |
| I. Footwear slip resistance             |                                                |         |
|                                         | SRC                                            |         |
| J. Chemical resistance                  |                                                |         |
|                                         | see detailed list                              |         |