



**F.V.F.**<sup>®</sup>  
International S.r.l.

# DUREZZE: TABELLA CONVERSIONE

| Brinell<br>Hardness                    | Rockwell Hardness Number                |   |  |  |  |   | Rockwell Superficial Hardness Number                |  |  |   |   |   | Tensile<br>Strength |
|--|---|---|--|--|--|---|---|--|--|---|---|---|---------------------|
|  | A<br>Scale                              | B<br>Scale                                | C<br>Scale                               | D<br>Scale                               | E<br>Scale                               | F<br>Scale                              | 15-N<br>Scale                                       | 30-N<br>Scale  | 45-N<br>Scale  | 15-T<br>Scale                           | 30-T<br>Scale                           | 45-T<br>Scale                           |                     |
| 10-mm<br>Std. Ball<br>3000-kgf<br>load | Diamond<br>Penetrator<br>60-kgf<br>load | 1.588-mm<br>1/16" Ball<br>100-kgf<br>load | Diamond<br>Penetrator<br>150-kgf<br>load | Diamond<br>Penetrator<br>100-kgf<br>load | 3.175-mm<br>1/8" Ball<br>100-kgf<br>load | 1.588mm<br>1/16" Ball<br>60-kgf<br>load | Superficial<br>Diamond<br>Penetrator<br>30-kgf load | Superficial<br>Diamond<br>Penetrator<br>30-kgf<br>load | Superficial<br>Diamond<br>Penetrator<br>45-kgf<br>load | 1.588mm<br>1/16" Ball<br>15-kgf<br>load | 1.588mm<br>1/16" Ball<br>30-kgf<br>load | 1.588mm<br>1/16" Ball<br>45-kgf<br>load | KSI                 |
| 750                                    | 85.0                                    | —   | 66.0                                     | 76.0                                     | —  | —                                       | 93.0  | 83.0   | 73.0   | —                                       | —                                       | —                                       | —                   |
| 710                                    | 84.0                                    | —   | 64.0                                     | 74.0                                     | —  | —                                       | 92.0  | 81.0   | 71.0   | —                                       | —                                       | —                                       | —                   |
| 682                                    | 83.0                                    | —   | 62.0                                     | 73.0                                     | —  | —                                       | 91.0  | 79.0   | 69.0   | —                                       | —                                       | —                                       | —                   |
| 653                                    | 81.0                                    | —   | 60.0                                     | 71.0                                     | —  | —                                       | 90.0  | 78.0   | 67.0   | —                                       | —                                       | —                                       | 314                 |
| 578                                    | 80.0                                    | —   | 58.0                                     | 69.0                                     | —  | —                                       | 89.0  | 76.0   | 64.0   | —                                       | —                                       | —                                       | 299                 |
| 555                                    | 79.0                                    | —   | 56.0                                     | 68.0                                     | —  | —                                       | 88.0  | 74.0   | 62.0   | —                                       | —                                       | —                                       | 284                 |
| 534                                    | 78.0                                    | —   | 54.0                                     | 66.0                                     | —  | —                                       | 87.0  | 72.0   | 60.0   | —                                       | —                                       | —                                       | 270                 |
| 495                                    | 77.0                                    | —   | 52.0                                     | 65.0                                     | —  | —                                       | 86.0  | 70.0   | 57.0   | —                                       | —                                       | —                                       | 256                 |
| 479                                    | 75.5                                    | —   | 50.0                                     | 63.0                                     | —  | —                                       | 85.5  | 68.0   | 54.5   | —                                       | —                                       | —                                       | 244                 |
| 450                                    | 74.5                                    | —   | 48.0                                     | 61.5                                     | —  | —                                       | 84.5  | 66.5   | 52.5   | —                                       | —                                       | —                                       | 228                 |
| 425                                    | 73.5                                    | —   | 46.0                                     | 60.0                                     | —  | —                                       | 83.5  | 64.5   | 50.0   | —                                       | —                                       | —                                       | 212                 |
| 403                                    | 72.5                                    | —   | 44.0                                     | 58.5                                     | —  | —                                       | 82.5  | 63.0   | 47.5   | —                                       | —                                       | —                                       | 201                 |
| 382                                    | 71.5                                    | —   | 42.0                                     | 57.0                                     | —  | —                                       | 81.5  | 61.0   | 45.5   | —                                       | —                                       | —                                       | 189                 |
| 363                                    | 70.5                                    | —   | 40.0                                     | 55.5                                     | —  | —                                       | 80.5  | 59.5   | 43.0   | —                                       | —                                       | —                                       | 178                 |
| 346                                    | 69.5                                    | —   | 38.0                                     | 54.0                                     | —  | —                                       | 79.5  | 58.0   | 41.0   | —                                       | —                                       | —                                       | 167                 |
| 329                                    | 68.5                                    | —   | 36.0                                     | 52.5                                     | —  | —                                       | 78.5  | 56.0   | 38.5   | —                                       | —                                       | —                                       | 160                 |
| 313                                    | 67.5                                    | —   | 34.0                                     | 50.5                                     | —  | —                                       | 77.5  | 54.5   | 36.0   | —                                       | —                                       | —                                       | 153                 |
| 298                                    | 66.5                                    | 106                                       | 32.0                                     | 49.5                                     | —  | 116.5                                   | 76.5  | 52.5   | 34.0   | 94.5                                    | 85.5                                    | 77.0                                    | 144                 |
| 275                                    | 64.5                                    | 104                                       | 29.5                                     | 46.5                                     | —  | 115.5                                   | 75.0  | 49.5   | 30.0   | 94.0                                    | 84.5                                    | 75.0                                    | 130                 |
| 258                                    | 63.0                                    | 102                                       | 25.5                                     | 44.5                                     | —  | 114.5                                   | 73.5  | 47.0   | 26.5   | 93.0                                    | 83.0                                    | 73.0                                    | 121                 |
| 241                                    | 61.5                                    | 100                                       | 22.5                                     | 42.0                                     | —  | 113.0                                   | 72.0  | 44.5   | 23.0   | 92.5                                    | 81.5                                    | 71.0                                    | 114                 |
| 228                                    | 60.5                                    | 98  | 20.0                                     | 40.0                                     | —  | 112.0                                   | 70.5  | 42.0   | 20.0   | 92.0                                    | 80.5                                    | 69.0                                    | 107                 |
| 215                                    | 59.0                                    | 96  | 17.0                                     | 38.0                                     | —  | 111.0                                   | 69.0  | 39.5   | 17.0   | 91.0                                    | 79.0                                    | 67.0                                    | 101                 |
| 204                                    | 57.5                                    | 94  | 14.5                                     | 36.0                                     | —  | 110.0                                   | 68.0  | 37.5   | 14.0   | 90.5                                    | 77.5                                    | 65.0                                    | 96                  |
| 194                                    | 56.5                                    | 92  | 12.0                                     | 34.0                                     | —  | 108.5                                   | 66.5  | 35.5   | 11.0   | 89.5                                    | 76.0                                    | 63.0                                    | 93                  |
| 184                                    | 55.0                                    | 90  | 9.0                                      | 32.0                                     | 108.5                                    | 107.5                                   | 65.0  | 32.5   | 7.5  | 89.0                                    | 75.0                                    | 61.0                                    | 89                  |
| 176                                    | 53.5                                    | 88  | 6.5                                      | 30.0                                     | 107.0                                    | 106.5                                   | 64.0  | 30.5   | 5.0  | 88.0                                    | 73.5                                    | 59.5                                    | 85                  |
| 168                                    | 52.5                                    | 86  | 4.0                                      | 28.0                                     | 106.0                                    | 105.0                                   | 62.5  | 28.5   | 2.0  | 87.5                                    | 72.0                                    | 57.5                                    | 81                  |
| 161                                    | 51.5                                    | 84  | 2.0                                      | 26.5                                     | 104.5                                    | 104.0                                   | 61.5  | 26.5   | -5   | 87.0                                    | 70.5                                    | 55.5                                    | 78                  |
| 155                                    | 50.0                                    | 82  | —  | 24.5                                     | 103.0                                    | 103.0                                   | —   | —  | —  | 86.0                                    | 69.5                                    | 53.5                                    | 75                  |
| 148                                    | 49.0                                    | 80  | —  | 22.5                                     | 102.0                                    | 101.5                                   | —   | —  | —  | 85.5                                    | 68.0                                    | 51.5                                    | 72                  |
| 144                                    | 47.5                                    | 78  | —  | 21.0                                     | 100.5                                    | 100.5                                   | —   | —  | —  | 84.5                                    | 66.5                                    | 49.5                                    | 69                  |
| 139                                    | 46.5                                    | 76  | —  | 19.0                                     | 99.5                                     | 99.5                                    | —   | —  | —  | 84.0                                    | 65.5                                    | 47.5                                    | 67                  |
| 134                                    | 45.5                                    | 74  | —  | 17.5                                     | 98.0                                     | 98.5                                    | —   | —  | —  | 83.0                                    | 64.0                                    | 45.5                                    | 65                  |
| 129                                    | 44.0                                    | 72  | —  | 16.0                                     | 97.0                                     | 97.0                                    | —   | —  | —  | 82.5                                    | 62.5                                    | 43.5                                    | 63                  |
| 125                                    | 43.0                                    | 70  | —  | 14.5                                     | 95.5                                     | 96.0                                    | —   | —  | —  | 82.0                                    | 61.0                                    | 41.5                                    | 61                  |
| 121                                    | 42.0                                    | 68  | —  | 13.0                                     | 94.5                                     | 95.0                                    | —   | —  | —  | 81.0                                    | 60.0                                    | 39.5                                    | 59                  |
| 118                                    | 41.0                                    | 66  | —  | 11.5                                     | 93.0                                     | 93.5                                    | —   | —  | —  | 80.5                                    | 58.5                                    | 37.5                                    | 57                  |
| 114                                    | 40.0                                    | 64  | —  | 10.0                                     | 91.5                                     | 92.5                                    | —   | —  | —  | 79.5                                    | 57.0                                    | 35.5                                    | 55                  |
| 111                                    | 39.0                                    | 62  | —  | 8.0                                      | 90.5                                     | 91.5                                    | —   | —  | —  | 79.0                                    | 56.0                                    | 33.5                                    | 53                  |
| 108                                    | —                                       | 60  | —  | —  | 89.0                                     | 90.0                                    | —   | —  | —  | 78.5                                    | 54.5                                    | 31.5                                    | 51                  |
| 106                                    | —                                       | 58  | —  | —  | 88.0                                     | 89.0                                    | —   | —  | —  | 77.5                                    | 53.0                                    | 29.5                                    | —                   |
| 103                                    | —                                       | 56  | —  | —  | 86.5                                     | 88.0                                    | —   | —  | —  | 77.0                                    | 51.5                                    | 27.5                                    | —                   |
| 100                                    | —                                       | 54  | —  | —  | 85.5                                     | 87.0                                    | —   | —  | —  | 76.0                                    | 50.5                                    | 25.5                                    | —                   |
| 98                                     | —                                       | 52  | —  | —  | 84.0                                     | 85.5                                    | —   | —  | —  | 75.5                                    | 49.0                                    | 23.5                                    | —                   |
| 95                                     | —                                       | 50  | —  | —  | 83.0                                     | 84.5                                    | —   | —  | —  | 74.5                                    | 47.5                                    | 21.5                                    | —                   |
| 93                                     | —                                       | 48  | —  | —  | 81.5                                     | 83.5                                    | —   | —  | —  | 74.0                                    | 46.5                                    | 19.5                                    | —                   |
| 91                                     | —                                       | 46  | —  | —  | 80.5                                     | 82.0                                    | —   | —  | —  | 73.5                                    | 45.0                                    | 17.0                                    | —                   |