

# DEK STANDARD ENGINEERING INSTRUCTION

Title

Page 1 of 2

## Hardness Comparison Table

DSM100

### HARDNESS COMPARISON TABLE

| Brinell<br>10mm<br>Ball<br>3000kg<br>Load | Firth<br>or<br>Vickers<br>120kg | Rockwell                           |                                     | Brinell<br>10mm<br>Ball<br>3000 kg<br>Load | Firth<br>or<br>Vickers<br>120kg | Rockwell                           |                                     |
|-------------------------------------------|---------------------------------|------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------|------------------------------------|-------------------------------------|
|                                           |                                 | C.Scale<br>120° Cone<br>150kg load | B.Scale<br>1/16" Ball<br>100kg load |                                            |                                 | C.Scale<br>120° Cone<br>150kg load | B.Scale<br>1/16" Ball<br>100kg load |
| 800                                       | -                               | 72                                 | -                                   | 276                                        | 278                             | 30                                 | 105                                 |
| 780                                       | 1220                            | 71                                 | -                                   | 239                                        | 272                             | 29                                 | 104                                 |
| 760                                       | 1170                            | 70                                 | -                                   | 261                                        | 261                             | 28                                 | 103                                 |
| 745                                       | 1114                            | 68                                 | -                                   | 258                                        | 258                             | 27                                 | 102                                 |
| 725                                       | 1060                            | 67                                 | -                                   | 255                                        | 255                             | 26                                 | 102                                 |
| 712                                       | 1021                            | 66                                 | -                                   | 249                                        | 250                             | 25                                 | 101                                 |
| 682                                       | 940                             | 65                                 | -                                   | 245                                        | 246                             | 24                                 | 100                                 |
| 668                                       | 905                             | 64                                 | -                                   | 240                                        | 240                             | 23                                 | 99                                  |
| 652                                       | 867                             | 63                                 | -                                   | 237                                        | 235                             | 22                                 | 99                                  |
| 626                                       | 803                             | 62                                 | -                                   | 229                                        | 226                             | 21                                 | 98                                  |
| 614                                       | 775                             | 61                                 | -                                   | 224                                        | 221                             | 20                                 | 97                                  |
| 601                                       | 746                             | 60                                 | -                                   | 217                                        | 217                             | 19                                 | 96                                  |
| 590                                       | 727                             | 59                                 | -                                   | 211                                        | 213                             | 18                                 | 95                                  |
| 576                                       | 694                             | 57                                 | -                                   | 206                                        | 209                             | 17                                 | 94                                  |
| 552                                       | 649                             | 56                                 | -                                   | 203                                        | 201                             | 16                                 | 94                                  |
| 545                                       | 639                             | 55                                 | -                                   | 200                                        | 199                             | 15                                 | 93                                  |
| 529                                       | 606                             | 54                                 | -                                   | 196                                        | 197                             | 14                                 | 92                                  |
| 514                                       | 587                             | 53                                 | 120                                 | 191                                        | 190                             | 13                                 | 92                                  |
| 502                                       | 565                             | 52                                 | 119                                 | 187                                        | 186                             | 12                                 | 91                                  |
| 495                                       | 551                             | 51                                 | 119                                 | 185                                        | 184                             | 11                                 | 91                                  |
| 477                                       | 534                             | 49                                 | 118                                 | 183                                        | 183                             | 10                                 | 90                                  |
| 461                                       | 502                             | 48                                 | 117                                 | 180                                        | 177                             | 9                                  | 89                                  |
| 451                                       | 489                             | 47                                 | 117                                 | 175                                        | 174                             | 7                                  | 88                                  |
| 444                                       | 474                             | 46                                 | 116                                 | 170                                        | 171                             | 6                                  | 87                                  |
| 427                                       | 460                             | 45                                 | 115                                 | 167                                        | 168                             | 5                                  | 97                                  |
| 415                                       | 435                             | 44                                 | 115                                 | 165                                        | 165                             | 4                                  | 86                                  |
| 401                                       | 423                             | 43                                 | 114                                 | 163                                        | 462                             | 3                                  | 85                                  |
| 388                                       | 401                             | 42                                 | 114                                 | 160                                        | 159                             | 2                                  | 84                                  |
| 375                                       | 390                             | 41                                 | 113                                 | 156                                        | 154                             | 1                                  | 83                                  |
| 370                                       | 385                             | 40                                 | 112                                 | 154                                        | 152                             | -                                  | 82                                  |

|       |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|
| Issue | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|-------|----|----|----|----|----|----|----|----|

|     |      |  |  |  |  |  |  |  |
|-----|------|--|--|--|--|--|--|--|
| DCR | 7135 |  |  |  |  |  |  |  |
|-----|------|--|--|--|--|--|--|--|

# DEK STANDARD ENGINEERING INSTRUCTION

Title

Page 2 of 2

## Hardness Comparison Table

## DSM100

| Brinell<br>10mm<br>Ball<br>3000kg<br>Load | Firth<br>or<br>Vickers<br>120kg | Rockwell                           |                                     | Brinell<br>10mm<br>Ball<br>3000 kg<br>Load | Firth<br>or<br>Vickers<br>120kg | Rockwell                           |                                     |
|-------------------------------------------|---------------------------------|------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------|------------------------------------|-------------------------------------|
|                                           |                                 | C.Scale<br>120° Cone<br>150kg load | B.Scale<br>1/16" Ball<br>100kg load |                                            |                                 | C.Scale<br>120° Cone<br>150kg load | B.Scale<br>1/16" Ball<br>100kg load |
| 362                                       | 380                             | 39                                 | 111                                 | 152                                        | 150                             | -                                  | 82                                  |
| 351                                       | 361                             | 38                                 | 111                                 | 150                                        | 149                             | -                                  | 81                                  |
| 346                                       | 352                             | 37                                 | 110                                 | 147                                        | 147                             | -                                  | 80                                  |
| 341                                       | 344                             | 37                                 | 110                                 | 145                                        | 146                             | -                                  | 79                                  |
| 331                                       | 335                             | 36                                 | 109                                 | 143                                        | 144                             | -                                  | 79                                  |
| 323                                       | 320                             | 35                                 | 109                                 | 141                                        | 142                             | -                                  | 78                                  |
| 311                                       | 312                             | 34                                 | 108                                 | 140                                        | 141                             | -                                  | 77                                  |
| 301                                       | 305                             | 33                                 | 107                                 | 135                                        | 135                             | -                                  | 75                                  |
| 293                                       | 291                             | 32                                 | 106                                 | 130                                        | 130                             | -                                  | 72                                  |
| 285                                       | 285                             | 31                                 | 105                                 | -                                          | -                               | -                                  | -                                   |

DEK Engineering Drawings to specify hardness values in Rockwell 'C'.

| Issue | 01   | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
|-------|------|----|----|----|----|----|----|----|
| DCR   | 7135 |    |    |    |    |    |    |    |