

# Table d'équivalences normalisées °C/ $\Omega$ des Pt100, selon IEC 751

| °C   | 0     | -1    | -2    | -3    | -4    | -5    | -6    | -7    | -8    | -9    |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -210 | 14,36 | 13,98 | 13,57 | 13,17 | 12,78 | 12,38 | 11,99 | 11,59 | 11,2  | 10,8  |
| -200 | 18,53 | 18,11 | 17,7  | 17,28 | 16,86 | 16,44 | 16,03 | 15,61 | 15,19 | 14,78 |
| -190 | 22,78 | 22,35 | 21,93 | 21,5  | 21,08 | 20,65 | 20,23 | 19,8  | 19,38 | 18,95 |
| -180 | 27,05 | 26,62 | 26,2  | 25,77 | 25,34 | 24,91 | 24,49 | 24,06 | 23,63 | 23,21 |
| -170 | 31,28 | 30,86 | 30,43 | 30,01 | 29,59 | 29,16 | 28,74 | 28,32 | 27,9  | 27,49 |
| -160 | 35,48 | 35,06 | 34,64 | 34,22 | 33,8  | 33,38 | 32,96 | 32,54 | 32,12 | 31,7  |
| -150 | 39,65 | 39,23 | 38,82 | 38,4  | 37,98 | 37,56 | 37,15 | 36,73 | 36,31 | 35,9  |
| -140 | 43,8  | 43,38 | 42,97 | 42,55 | 42,14 | 41,72 | 41,31 | 40,89 | 40,48 | 40,06 |
| -130 | 47,93 | 47,52 | 47,1  | 46,69 | 46,28 | 45,86 | 45,45 | 45,04 | 44,63 | 44,21 |
| -120 | 52,04 | 51,63 | 51,22 | 50,81 | 50,4  | 49,98 | 49,57 | 49,16 | 48,75 | 48,34 |
| -110 | 56,13 | 55,72 | 55,31 | 54,9  | 54,49 | 54,08 | 53,68 | 53,27 | 52,86 | 52,45 |
| -100 | 60,2  | 59,79 | 59,39 | 58,98 | 58,57 | 58,16 | 57,76 | 57,35 | 56,94 | 56,54 |
| -90  | 64,25 | 63,84 | 63,44 | 63,03 | 62,63 | 62,22 | 61,82 | 61,41 | 61,01 | 60,6  |
| -80  | 68,28 | 67,88 | 67,47 | 67,07 | 66,67 | 66,26 | 65,66 | 65,46 | 65,06 | 64,65 |
| -70  | 72,19 | 71,89 | 71,49 | 71,09 | 70,69 | 70,28 | 69,68 | 69,48 | 69,08 | 68,68 |
| -60  | 76,28 | 75,88 | 75,48 | 75,08 | 74,68 | 74,28 | 73,89 | 73,49 | 73,09 | 72,69 |
| -50  | 80,25 | 79,85 | 79,46 | 79,06 | 78,66 | 78,26 | 77,87 | 77,47 | 77,07 | 76,68 |
| -40  | 84,21 | 83,81 | 83,42 | 83,02 | 82,63 | 82,23 | 81,83 | 81,44 | 81,04 | 80,65 |
| -30  | 88,17 | 87,77 | 87,38 | 86,98 | 86,59 | 86,19 | 85,79 | 85,4  | 85    | 84,61 |
| -20  | 92,13 | 91,73 | 91,34 | 90,94 | 90,55 | 90,15 | 89,75 | 89,36 | 88,96 | 88,57 |
| -10  | 96,07 | 95,68 | 95,28 | 94,89 | 94,49 | 94,1  | 93,71 | 93,31 | 92,92 | 92,52 |
| 0    | 100   | 99,61 | 99,21 | 98,82 | 98,43 | 98,03 | 97,64 | 97,25 | 96,85 | 96,46 |

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# Table d'équivalences normalisées °C/ $\Omega$ des Pt100, selon IEC 751

| °C           | 0      | 1      | 2      | 3                | 4                | 5               | 6      | 7      | 8                | 9      |
|--------------|--------|--------|--------|------------------|------------------|-----------------|--------|--------|------------------|--------|
| 0+           | 100    | 100,39 | 100,78 | 101,17           | 101,56           | 101,94          | 102,33 | 102,72 | 103,11           | 103,59 |
| 10+          | 103,89 | 104,28 | 104,67 | 105,06           | 105,45           | 105,84          | 106,23 | 106,62 | 107,01           | 107,4  |
| 20+          | 107,79 | 108,18 | 108,57 | 108,95           | 109,34           | 109,73          | 110,12 | 110,51 | 110,89           | 111,28 |
| 30+          | 111,67 | 112,06 | 112,44 | 112,83           | 113,22           | 113,6           | 113,99 | 114,38 | 114,77           | 115,15 |
| 40+          | 115,54 | 115,93 | 116,31 | 116,7            | 117,08           | 117,47          | 117,86 | 118,24 | 118,63           | 119,01 |
| 60+          | 123,24 | 123,62 | 124    | 124,39           | 124,77           | 125,15          | 125,54 | 125,92 | 126,3            | 126,69 |
| 70+          | 127,07 | 127,45 | 127,83 | 128,22           | 128,6            | 128,98          | 129,36 | 129,74 | 130,13           | 130,51 |
| 80+          | 130,89 | 131,27 | 131,65 | 132,03           | 132,41           | 132,79          | 133,18 | 133,56 | 133,94           | 134,32 |
| 90+          | 134,7  | 135,08 | 135,46 | 135,84           | 136,22           | 136,6           | 136,98 | 137,36 | 137,74           | 138,12 |
| 100+         | 138,5  | 138,88 | 139,46 | 139,63           | 140,01           | 140,39          | 140,77 | 141,15 | 141,52           | 141,9  |
| 110+         | 142,28 | 142,66 | 143,04 | 143,41           | 143,79           | 144,17          | 144,55 | 144,93 | 145,3            | 145,68 |
| 120+         | 146,06 | 146,44 | 146,81 | 147,19           | 147,56           | 147,94          | 148,32 | 148,69 | 149,07           | 149,44 |
| 130+         | 149,82 | 150,19 | 150,57 | 150,94           | 151,32           | 151,69          | 152,07 | 152,44 | 152,82           | 153,19 |
| 140+         | 153,57 | 153,94 | 154,32 | 154,69           | 155,07           | 155,44          | 155,82 | 156,19 | 156,57           | 156,94 |
| 150+         | 157,32 | 157,69 | 158,06 | 158,44           | 158,81           | 159.18          | 159,55 | 159.92 | 160,3            | 160,67 |
| 160+         | 161,04 | 161,41 | 161,78 | 162,16           | 162,53           | 162,9           | 163,27 | 163,64 | 164,02           | 164,39 |
| 170+         | 164,76 | 165,13 | 165,5  | 165,87           | 166,24           | 166,61          | 166,99 | 167,36 | 167,73           | 168,1  |
| 180+         | 168,47 | 168,84 | 169,21 | 169,58           | 169,95           | 170,31          | 170,68 | 171,05 | 171,42           | 171,79 |
| 190+         | 172,16 | 172,53 | 172,9  | 173,26           | 173,63           | 174             | 174,37 | 174,74 | 175,1            | 175,47 |
| 200+         | 175,84 | 176,21 | 176,57 | 176,94           | 177,31           | 177,67          | 178,04 | 178,41 | 178,78           | 179,14 |
| 210+         | 179,51 | 179,88 | 180,24 | 180,61           | 180,97           | 181,34          | 181,71 | 182,07 | 182,44           | 182,8  |
| 220+         | 183,17 | 183,53 | 183,9  | 184,26           | 184,63           | 184,99          | 185,36 | 185,72 | 186,06           | 186,45 |
| 230+         | 186,82 | 187,18 | 187,55 | 187,91           | 188,28           | 188,64          | 189    | 189,37 | 189,73           | 190,1  |
| 240+         | 190,46 | 190,82 | 191,18 | 191,55           | 191,91           | 192,27          | 192.63 | 192.99 | 193,36           | 190,1  |
| 250+         | 190,46 | 190,82 | 191,18 | -                |                  | -               | 192,63 | 192,99 | 193,36           | 193,73 |
| 260+         | 194,08 | 194,44 | 194,8  | 195,17<br>198,78 | 195,53<br>199,14 | 195,89<br>199,5 | 196,25 | 200,22 | 200,58           | 200,94 |
| 270+         | 201,3  | 201,66 | 202,02 | 202,37           | 202,73           | 203,09          | 203,45 | 200,22 |                  | 200,94 |
| 280+         | 201,3  | 201,66 | 202,02 | 202,37           | 202,73           | 203,09          | 203,45 | 203,81 | 204,16<br>207,74 | 204,52 |
| 290+         |        |        |        |                  |                  | 210,24          |        |        |                  |        |
|              | 208,46 | 208,82 | 209,17 | 209,53           | 209,89           |                 | 210,6  | 210,96 | 211,32           | 211,67 |
| 300+         | 212,03 | 212,38 | 212,74 | 213,09           | 213,45           | 213,8           | 214,16 | 214,51 | 214,87           | 215,22 |
| 310+         | 215,58 | 215,93 | 216,29 | 216,64           | 217              | 217,35          | 217,71 | 218,06 | 218,42           | 218,77 |
| 320+<br>330+ | 219,13 | 219,48 | 219,84 | 220,19           | 220,54           | 220,89          | 221,25 | 221,6  | 221,95           | 222,31 |
|              | 222,66 | 223,01 | 223,36 | 223,72           | 224,07           | 224,42          | 224,77 | 225,12 | 225,48           | 225,83 |
| 340+         | 226,18 | 226,53 | 226,88 | 227,23           | 227,58           | 227,93          | 228,29 | 228,64 | 228,99           | 229,34 |
| 350+         | 229,69 | 230,04 | 230,39 | 230,74           | 231,09           | 231,44          | 231,79 | 232,14 | 232,49           | 232,84 |
| 360+         | 233,19 | 233,54 | 233,89 | 234,23           | 234,58           | 234,93          | 235,28 | 235,63 | 235,97           | 236,32 |
| 370+         | 236,67 | 237,02 | 237,37 | 237,71           | 238,06           | 238,41          | 238,76 | 239,11 | 239,45           | 239,8  |
| 380+         | 240,15 | 240,5  | 240,84 | 241,19           | 241,53           | 241,88          | 242,23 | 242,57 | 242,92           | 243,26 |
| 390+         | 243,61 | 243,95 | 244,3  | 244,64           | 244,99           | 245,33          | 245,68 | 246,02 | 246,37           | 246,71 |
| 400+         | 247,06 | 247,4  | 247,75 | 248,09           | 248,44           | 248,78          | 249,12 | 249,47 | 249,81           | 250,16 |
| 410+         | 250,5  | 250,84 | 251,19 | 251,53           | 251,87           | 252,21          | 252,56 | 252,9  | 253,24           | 253,59 |
| 420+         | 243,93 | 244,27 | 244,61 | 244,95           | 245,29           | 245,63          | 245,98 | 246,32 | 246,66           | 247    |
| 430          | 257,34 | 257,68 | 258,02 | 258,36           | 258,7            | 259,04          | 259,39 | 259,73 | 260,07           | 260,41 |
| 440+         | 260,75 | 261,09 | 261,43 | 261,77           | 262,11           | 262,44          | 262,78 | 263,12 | 263,46           | 263,8  |
| 450+         | 264,14 | 264,48 | 264,82 | 265,15           | 265,49           | 265,83          | 266,17 | 266,51 | 266,84           | 267,18 |
| 460+         | 267,52 | 267,86 | 268,19 | 268,53           | 268,87           | 269,2           | 269,54 | 269,88 | 270,22           | 270,55 |
| 470+         | 270,89 | 271,23 | 271,56 | 271,9            | 272,23           | 272,57          | 272,91 | 273,24 | 273,58           | 273,91 |
| 480+         | 274,25 | 274,58 | 274,92 | 275,25           | 275,59           | 275,92          | 276,26 | 276,59 | 276,93           | 277,26 |
| 490+         | 277,6  | 277,93 | 278,27 | 278,6            | 278,93           | 279,26          | 279,6  | 279,93 | 280,26           | 280,6  |
| 500+         | 280,93 | 281,26 | 281,6  | 281,93           | 282,26           | 282,6           | 282,93 | 283,26 | 283,6            | 283,93 |
| 510+         | 284,26 | 284,59 | 284,92 | 285,25           | 285,58           | 285,91          | 286,25 | 286,58 | 286,91           | 287,24 |
| 520+         | 287,57 | 287,9  | 288,23 | 288,56           | 288,89           | 289,22          | 289,55 | 289,88 | 290,21           | 290,54 |
| 530+         | 290,87 | 291,2  | 291,53 | 291,86           | 292,19           | 292,51          | 292,84 | 293,17 | 293,5            | 293,83 |
| 540+         | 294,16 | 294,49 | 294,81 | 295,14           | 295,47           | 295,79          | 296,12 | 296,45 | 296,78           | 297,1  |
| 550+         | 297,43 | 297,76 | 298,08 | 298,41           | 298,74           | 299,06          | 299,39 | 299,72 | 300,05           | 300,37 |
| 560+         | 300,7  | 301,02 | 301,35 | 301,67           | 302              | 302,32          | 302,65 | 302,97 | 303,3            | 303,62 |
| 570+         | 303,95 | 304,27 | 304,6  | 304,92           | 305,25           | 305,57          | 305,9  | 306,22 | 306,55           | 306,87 |
| 580+         | 307,2  | 307,52 | 307,85 | 308,17           | 308,49           | 308,81          | 309,14 | 309,46 | 309,78           | 310,11 |
| 590+         | 310,43 | 310,75 | 311,07 | 311,4            | 311,72           | 312,04          | 312,37 | 312,68 | 313,01           | 313,33 |
| 600+         | 313,65 | 313,97 | 314,29 | 314,61           | 314,93           | 315,25          | 315,58 | 315,9  | 316,22           | 316,54 |
| 610+         | 316,86 | 317,18 | 317,5  | 317,82           | 318,14           | 318,45          | 318,77 | 319,09 | 319,41           | 319,73 |
| 620+         | 320,05 | 320,37 | 320,69 | 321,01           | 321,33           | 321,64          | 321,96 | 322,28 | 322,6            | 322,92 |
| 630+         | 323,24 | 323,56 | 323,87 | 324,19           | 324,51           | 324,82          | 325,14 | 325,46 | 325,78           | 326,09 |
| 640+         | 326,41 | 326,73 | 327,04 | 327,36           | 327,67           | 327,99          | 328,31 | 328,62 | 328,94           | 329,25 |
| 650+         | 329,57 | 329,88 | 330,2  | 330,51           | 330,83           | 331,14          | 331,46 | 331,77 | 332,09           | 332,4  |
| 660+         | 332,72 | 333,03 | 333,35 | 333,66           | 333,98           | 334,29          | 334,6  | 334,92 | 335,23           | 335,55 |
| 670+         | 335,86 | 336,17 | 336,49 | 336,8            | 337,11           | 337,42          | 337,74 | 338,05 | 338,36           | 338,68 |
| 680+         | 338,99 | 339,3  | 339,61 | 339,92           | 340,23           | 340,54          | 340,85 | 341,17 | 341,48           | 341,79 |
| 690+         | 342,1  | 342,41 | 342,72 | 343,03           | 343,34           | 343,65          | 343,97 | 344,28 | 344,59           | 344,9  |
| 700+         | 345,21 | 345,52 | 345,83 | 346,14           | 346,45           | 346,75          | 347,06 | 347,37 | 347,68           | 347,99 |
| 710+         | 348,3  | 348,61 | 348,92 | 349,22           | 349,53           | 349,84          | 350,15 | 350,46 | 350,76           | 351,07 |
| 720+         | 351,38 | 351,69 | 351,99 | 352,3            | 352,61           | 352,91          | 353,22 | 353,53 | 353,84           | 354,14 |
| 730+         | 354,45 | 354,76 | 355,06 | 355,37           | 355,67           | 355,98          | 356,29 | 356,59 | 356,9            | 357,2  |
| 740+         | 357,51 | 357,81 | 358,12 | 358,42           | 358,73           | 359,03          | 359,33 | 359,64 | 359,94           | 360,25 |
| 750+         | 360,55 | 360,85 | 361,16 | 361,46           | 361,77           | 362,07          | 362,37 | 362,68 | 362,98           | 363,29 |
| 760+         | 363,59 | 363,89 | 364,19 | 364,5            | 364,8            | 365,1           | 365,4  | 365,7  | 366,01           | 366,31 |
| 770+         | 336,61 | 336,91 | 337,21 | 337,51           | 337,81           | 338,11          | 338,42 | 338,72 | 339,02           | 339,32 |
| 780+         | 369,62 | 369,92 | 370,22 | 370,52           | 370,82           | 371,12          | 371,42 | 371,72 | 372,02           | 372,32 |
| 790+         | 372,62 | 372,92 | 373,22 | 373,52           | 373,82           | 374,11          | 374,41 | 374,71 | 375,01           | 375,31 |
| 800+         | 375,61 | 375,91 | 376,21 | 376,5            | 376,8            | 377,1           | 377,4  | 377,7  | 377,99           | 378,29 |
| 810+         | 378,59 | 378,89 | 379,18 | 379,48           | 379,77           | 380,07          | 380,37 | 380,66 | 380,96           | 381,25 |
| 820+         | 381,55 | 381,84 | 382,14 | 382,43           | 382,73           | 383,02          | 383,32 | 383,61 | 383,91           | 384,2  |
| 830+         | 384,5  | 384,79 | 385,09 | 385,38           | 385,68           | 385,97          | 386,27 | 386,56 | 386,86           | 387,15 |
| 840+         | 387,45 | 387,74 | 388,04 | 388,33           | 388,62           | 388,91          | 389,21 | 389,5  | 389,79           | 390,09 |
|              | ,.0    | ,-     | ,      | ,00              | ,                | ,0.             | ,      | ,0     | ,                | ,00    |

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# Table d'équivalences normalisées °C/µV des thermocouples type T, selon IEC 584

Valeurs en microvolt

|      |              |                |              |       |       |       |       |       | Valcar                     | s en microvolt |
|------|--------------|----------------|--------------|-------|-------|-------|-------|-------|----------------------------|----------------|
| °C   | 0            | -1             | -2           | -3    | -4    | -5    | -6    | -7    | -8                         | -9             |
| -270 | -6258        |                |              |       |       |       |       |       |                            |                |
| -260 | -6232        | -6236          | -6239        | -6242 | -6245 | -6248 | -6251 | -6253 | -6255                      | -6256          |
| -250 | -6181        | -6187          | -6193        | -6198 | -6204 | -6209 | -6214 | -6219 | -6224                      | -6228          |
| -240 | -6105        | -6114          | -6122        | -6130 | -6138 | -6146 | -6153 | -6160 | -6167                      | -6174          |
| -230 | -6007        | -6018          | -6028        | -6039 | -6049 | -6059 | -6068 | -6078 | -6087                      | -6096          |
| -220 | -5889        | -5901          | -5914        | -5926 | -5938 | -5950 | -5962 | -5973 | -5985                      | -5996          |
| -210 | -5753        | -5767          | -5782        | -5795 | -5809 | -5823 | -5836 | -5850 | -5863                      | -5876          |
| -200 | -5603        | -5619          | -5634        | -5650 | -5665 | -5680 | -5695 | -5710 | -5724                      | -5739          |
| -190 | -5439        |                | -5473        | -5489 | -5506 | -5522 |       | -5555 | -572 <del>4</del><br>-5571 | -5739          |
| -180 |              | -5456<br>-5279 | -5297        |       |       | -5351 | -5539 |       | -5404                      | -5421          |
|      | -5261        |                |              | -5315 | -5333 |       | -5369 | -5387 |                            |                |
| -170 | -5069        | -5089          | -5109        | -5128 | -5147 | -5167 | -5186 | -5205 | -5223                      | -5242          |
| -160 | -4865        | -4886          | -4907        | -4928 | -4948 | -4969 | -4989 | -5010 | -5030                      | -5050          |
| -150 | -4648        | -4670          | -4693        | -4715 | -4737 | -4758 | -4780 | -4801 | -4823                      | -4844          |
| -140 | -4419        | -4442          | -4466        | -4489 | -4512 | -4535 | -4558 | -4581 | -4603                      | -4626          |
| -130 | -4177        | -4202          | -4226        | -4251 | -4275 | -4299 | -4323 | -4347 | -4371                      | -4395          |
| -120 | -3923        | -3949          | -3974        | -4000 | -4026 | -4051 | -4077 | -4102 | -4127                      | -4152          |
| -110 | -3656        | -3684          | -3711        | -3737 | -3764 | -3791 | -3818 | -3844 | -3870                      | -3897          |
| -100 | -3378        | -3407          | -3435        | -3463 | -3491 | -3519 | -3547 | -3574 | -3602                      | -3629          |
| -90  | -3089        | -3118          | -3147        | -3177 | -3206 | -3235 | -3264 | -3293 | -3321                      | -3350          |
| -80  | -2788        | -2818          | -2849        | -2879 | -2909 | -2939 | -2970 | -2999 | -3029                      | -3059          |
| -70  | -2475        | -2507          | -2539        | -2570 | -2602 | -2633 | -2664 | -2695 | -2726                      | -2757          |
| -60  | -2152        | -2185          | -2218        | -2250 | -2283 | -2315 | -2348 | -2380 | -2412                      | -2444          |
| -50  | -1819        | -1853          | -1886        | -1920 | -1953 | -1987 | -2020 | -2053 | -2087                      | -2120          |
| -40  | -1475        | -1510          | -1544        | -1579 | -1614 | -1648 | -1682 | -1717 | -1751                      | -1785          |
| -30  | -1121        | -1157          | -1192        | -1228 | -1263 | -1299 | -1334 | -1370 | -1405                      | -1440          |
| -20  | -757         | -794           | -830         | -867  | -903  | -940  | -976  | -1013 | -1049                      | -1085          |
| -10  | 383          | -421           | -458         | -496  | -534  | -571  | -608  | -646  | -683                       | -720           |
| 0    | 0            | -39            | -77          | -116  | -154  | -193  | -231  | -269  | -307                       | -345           |
| °C   | 0            | 1              | 2            | 3     | 4     | 5     | 6     | 7     | 8                          | 9              |
| 0    | 0            | 39             | 78           | 117   | 156   | 195   | 234   | 273   | 312                        | 351            |
| 10   | 391          | 430            | 470          | 510   | 549   | 589   | 629   | 669   | 709                        | 749            |
| 20   | 789          | 830            | 870          | 911   | 951   | 992   | 1032  | 1073  | 1114                       | 1155           |
| 30   | 1196         | 1237           | 1279         | 1320  | 1361  | 1403  | 1444  | 1486  | 1528                       | 1569           |
| 40   | 1611         | 1653           | 1695         | 1738  | 1780  | 1822  | 1865  | 1907  | 1950                       | 1992           |
| 50   | 2035         | 2078           | 2121         | 2164  | 2207  | 2250  | 2294  | 2337  | 2380                       | 2424           |
| 60   | 2467         | 2511           | 2555         | 2599  | 2643  | 2687  | 2731  | 2775  | 2819                       | 2864           |
| 70   | 2908         | 2953           | 2997         | 3042  | 3087  | 3131  | 3176  | 3221  | 3266                       | 3312           |
| 80   | 3357         | 3402           | 3447         | 3493  | 3538  | 3584  | 3630  | 3676  | 3721                       | 3767           |
| 90   |              |                | 3906         |       |       | 4044  | 4091  | 4137  | 4184                       | 4231           |
| 100  | 3813<br>4277 | 3859           |              | 3952  | 3998  | 4512  |       | 4607  |                            | 4701           |
| 110  |              | 4324           | 4371<br>4844 | 4418  | 4465  | 4987  | 4559  |       | 4654                       |                |
|      | 4749         | 4796           |              | 4891  | 4939  |       | 5035  | 5083  | 5131                       | 5179           |
| 120  | 5227         | 5275           | 5324         | 5372  | 5420  | 5469  | 5517  | 5566  | 5615                       | 5663           |
| 130  | 5712         | 5761           | 5810         | 5859  | 5908  | 5957  | 6007  | 6056  | 6105                       | 6155           |
| 140  | 6204         | 6254           | 6303         | 6353  | 6403  | 6452  | 6502  | 6552  | 6602                       | 6652           |
| 150  | 6702         | 6753           | 6803         | 6853  | 6903  | 6954  | 7004  | 7055  | 7106                       | 7156           |
| 160  | 7207         | 7258           | 7309         | 7360  | 7411  | 7462  | 7513  | 7564  | 7615                       | 7666           |
| 170  | 7718         | 7769           | 7821         | 7872  | 7924  | 7975  | 8027  | 8079  | 8131                       | 8183           |
| 180  | 8235         | 8287           | 8339         | 8391  | 8443  | 8495  | 8548  | 8600  | 8652                       | 8705           |
| 190  | 8757         | 8810           | 8863         | 8915  | 8968  | 9021  | 9074  | 9127  | 9180                       | 9233           |
| 200  | 9286         | 9339           | 9392         | 9446  | 9499  | 9553  | 9606  | 9659  | 9713                       | 9767           |
| 210  | 9820         | 9874           | 9928         | 9982  | 10036 | 10090 | 10144 | 10198 | 10252                      | 10306          |
| 220  | 10360        | 1014           | 10469        | 10523 | 10578 | 10632 | 10687 | 10741 | 10796                      | 10851          |
| 230  | 10905        | 10960          | 11015        | 11070 | 11125 | 11180 | 11235 | 11290 | 11345                      | 11401          |
| 240  | 11456        | 11511          | 11566        | 11622 | 11677 | 11733 | 11788 | 11844 | 11900                      | 11956          |
| 250  | 12011        | 12067          | 12123        | 12179 | 12235 | 12291 | 12347 | 12403 | 12459                      | 12515          |
| 260  | 12572        | 12628          | 12684        | 12741 | 12797 | 12854 | 12910 | 12967 | 13024                      | 13080          |
| 270  | 13137        | 13194          | 13251        | 13307 | 13364 | 13421 | 13478 | 13535 | 13592                      | 13650          |
| 280  | 13707        | 13764          | 13821        | 13879 | 13936 | 13993 | 14051 | 14108 | 14166                      | 14223          |
| 290  | 14281        | 14339          | 14396        | 14454 | 14512 | 14570 | 14628 | 14686 | 14744                      | 14802          |
| 300  | 14860        | 14918          | 14976        | 15034 | 15092 | 15151 | 15209 | 15267 | 15326                      | 15384          |
| 310  | 15443        | 15501          | 15560        | 15619 | 15677 | 15736 | 15795 | 15853 | 15912                      | 15971          |
| 320  | 16030        | 16089          | 16148        | 16207 | 16266 | 16325 | 16384 | 16444 | 16503                      | 16562          |
| 330  | 16621        | 16681          | 16740        | 16800 | 16859 | 16919 | 16978 | 17038 | 17097                      | 17157          |
| 340  | 17217        | 17277          | 17336        | 17396 | 17456 | 17516 | 17576 | 17636 | 17696                      | 17756          |
| 350  | 17816        | 17877          | 17937        | 17997 | 18057 | 18118 | 18178 | 18238 | 18299                      | 18359          |
| 360  | 18420        | 18480          | 18541        | 18602 | 18662 | 18723 | 18784 | 18845 | 18905                      | 18966          |
| 370  | 19027        | 19088          | 19149        | 19210 | 19271 | 19332 | 19393 | 19455 | 19516                      | 19577          |
| 380  | 19638        | 19699          | 19761        | 19822 | 19883 | 19945 | 20006 | 20068 | 20129                      | 20191          |
| 390  | 20252        | 20314          | 23076        | 20437 | 20499 | 20560 | 20622 | 20684 | 20746                      | 20807          |
| 400  | 20869        |                |              |       |       |       |       |       |                            |                |
| .00  | -0000        | l              | l            |       |       | l     | l     |       | 1                          |                |

Ed.01 - nov. 3/18



# Table d'équivalences normalisées °C/µV des thermocouples type K, selon IEC 584

| °C<br>-270<br>-260<br>-250 | 0<br>-6458     | -1             | -2             | -3             | -4             | -5             | -6             | -7             | -8             | -9             |
|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| -260                       |                |                |                |                |                |                |                |                |                |                |
|                            |                |                | 0440           | 0440           | 0.450          | 0.450          | 0.450          | 0.455          | 0.450          | 0.457          |
|                            | -6441<br>-6404 | -6444          | -6446          | -6448          | -6450<br>-6421 | -6452          | -6453          | -6455<br>-6432 | -6456          | -6457          |
| -250<br>-240               | -6344          | -6408<br>-6351 | -6413<br>-6358 | -6417<br>-6364 | -6371          | -6425<br>-6377 | -6429<br>-6382 | -6388          | -6435<br>-6394 | -6438<br>-6399 |
| -230                       | -6262          | -6271          | -6280          | -6289          | -6297          | -6306          | -6314          | -6322          | -6329          | -6337          |
| -220                       | -6158          | -6170          | -6181          | -6192          | -6202          | -6213          | -6223          | -6233          | -6243          | -6253          |
| -210                       | -6035          | -6048          | -6061          | -6074          | -6087          | -6099          | -6111          | -6123          | -6135          | -6147          |
| -200                       | -5891          | -5907          | -5922          | -5936          | -5951          | -5965          | -5980          | -5994          | -6007          | -6021          |
| -190                       | -5730          | -5747          | -5763          | -5780          | -5796          | -5813          | -5829          | -5845          | -5860          | -5876          |
| -180                       | -5550          | -5569          | -5587          | -5606          | -5624          | -5642          | -5660          | -5678          | -5695          | -5712          |
| -170                       | -5354          | -5374          | -5394          | -5414          | -5434          | -5454          | -5474          | -5493          | -5512          | -5531          |
| -160                       | -5141          | -5163          | -5185          | -5207          | -5228          | -5249          | -5271          | -5292          | -5313          | -5333          |
| -150                       | -4912          | -4936          | -4959          | -4983          | -5006          | -5029          | -5051          | -5074          | -5097          | -5119          |
| -140                       | -4669          | -4694          | -4719          | -4743          | -4768          | -4792          | -4817          | -4841          | -4865          | -4889          |
| -130                       | -4410<br>-4138 | -4437          | -4463<br>4403  | -4489<br>-4221 | -4515<br>4248  | -4541<br>4276  | -4567<br>4303  | -4593<br>4330  | -4618          | -4644          |
| -120<br>-110               | -4136<br>-3852 | -4166<br>-3881 | -4193<br>-3910 | -3939          | -4248<br>-3968 | -4276<br>-3997 | -4303<br>-4025 | -4330<br>-4053 | -4357<br>-4082 | -4384<br>-4110 |
| -100                       | -3553          | 3584           | -3614          | -3644          | -3674          | -3704          | -3734          | -3764          | -3793          | -3823          |
| -90                        | -3242          | -3274          | -3305          | -3337          | -3368          | -3399          | -3430          | -3461          | -3492          | -3523          |
| -80                        | -2920          | -2953          | -2985          | -3018          | -3050          | -3082          | -3115          | -3147          | -3179          | -3211          |
| -70                        | -2586          | -2620          | -2654          | -2687          | -2721          | -2754          | -2788          | -2821          | -2854          | -2887          |
| -60                        | -2243          | -2277          | -2312          | -2347          | -2381          | -2416          | -2450          | -2484          | -2518          | -2552          |
| -50                        | -1889          | -1925          | -1961          | -1996          | -2032          | -2067          | -2102          | -2137          | -2173          | -2208          |
| -40                        | -1527          | -1563          | -1600          | -1636          | -1673          | -1709          | -1745          | -1781          | -1817          | -1853          |
| -30                        | -1156          | -1193          | -1231          | -1268          | -1305          | -1342          | -1379          | -1416          | -1453          | -1490          |
| -20                        | -777           | -816           | -854           | -892           | -930           | -968           | -1005          | -1043          | -1081          | -1118          |
| -10                        | -392           | -431           | -469           | -508           | -547           | -585           | -624           | -662           | -701           | -739           |
| 0                          | 0              | -39            | -79            | -118           | -157           | -197           | -236           | -275           | -314           | -353           |
| °C                         | 0              | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              |
| 0                          | 0              | 39             | 79<br>477      | 119            | 158<br>557     | 198            | 238            | 277            | 317            | 357            |
| 10<br>20                   | 397<br>798     | 437<br>838     | 477<br>879     | 517<br>919     | 557<br>960     | 597<br>1000    | 637<br>1041    | 677<br>1081    | 718<br>1122    | 758<br>1162    |
| 30                         | 1203           | 1244           | 1285           | 1325           | 1366           | 1407           | 1448           | 1489           | 1529           | 1570           |
| 40                         | 1611           | 1652           | 1693           | 1734           | 1776           | 1817           | 1858           | 1899           | 1940           | 1981           |
| 50                         | 2022           | 2064           | 2105           | 2146           | 2188           | 2229           | 2270           | 2312           | 2353           | 2394           |
| 60                         | 2436           | 2477           | 2519           | 2560           | 2601           | 2643           | 2684           | 2726           | 2767           | 2809           |
| 70                         | 2850           | 2892           | 2933           | 2975           | 3016           | 3058           | 3100           | 3141           | 3183           | 3224           |
| 80                         | 3266           | 3307           | 3349           | 3390           | 3432           | 3473           | 3515           | 3556           | 3598           | 3639           |
| 90                         | 3681           | 3722           | 3764           | 3805           | 3847           | 3888           | 3930           | 3971           | 4012           | 4054           |
| 100                        | 4095           | 4137           | 4178           | 4219           | 4261           | 4302           | 4343           | 4384           | 4426           | 4467           |
| 110                        | 4508           | 4549           | 4590           | 4632           | 4673           | 4714           | 4755           | 4796           | 4837           | 4878           |
| 120                        | 4919           | 4960           | 5001           | 5042           | 5083           | 5124           | 5164           | 5205           | 5246           | 5287           |
| 130                        | 5327           | 5368           | 5409           | 5450           | 5490           | 5531           | 5571           | 5612           | 5652           | 5693           |
| 140                        | 5733           | 5774<br>6177   | 5814           | 5855           | 5895           | 5936           | 5976           | 6016           | 6057           | 6097<br>6499   |
| 150<br>160                 | 6137<br>6539   | 6579           | 6218<br>6619   | 6258<br>6659   | 6298<br>6699   | 6338<br>6739   | 6378<br>6779   | 6419<br>6819   | 6459<br>6859   | 6899           |
| 170                        | 6939           | 6979           | 7019           | 7059           | 7099           | 7139           | 7179           | 7219           | 7259           | 7299           |
| 180                        | 7338           | 7378           | 7418           | 7458           | 7498           | 7538           | 7578           | 7618           | 7658           | 7697           |
| 190                        | 7737           | 7777           | 7817           | 7857           | 7897           | 7937           | 7977           | 8017           | 8057           | 8097           |
| 200                        | 8137           | 8177           | 8216           | 8256           | 8296           | 8336           | 8376           | 8416           | 8456           | 8497           |
| 210                        | 8537           | 8577           | 8617           | 8657           | 8697           | 8737           | 8777           | 8817           | 8857           | 8898           |
| 220                        | 8938           | 8978           | 9018           | 9058           | 9099           | 9139           | 9179           | 9220           | 9260           | 9300           |
| 230                        | 9341           | 9381           | 9421           | 9462           | 9502           | 9543           | 9583           | 9624           | 9664           | 9705           |
| 240                        | 9745           | 9786           | 9826           | 9867           | 9907           | 9948           | 9989           | 10029          | 10070          | 10111          |
| 250                        | 10151          | 10192          | 10233          | 10274          | 10315          | 10355          | 10396          | 10437          | 10478          | 10519          |
| 260                        | 10560          | 10600          | 10641          | 10682          | 10723          | 10764          | 10805          | 10846          | 10887          | 10928          |
| 270                        | 10969          | 11010          | 11051<br>11463 | 11093<br>11504 | 11134          | 11175<br>11587 | 11216<br>11628 | 11257<br>11660 | 11298<br>11711 | 11339<br>11752 |
| 280<br>290                 | 11381<br>11793 | 11422<br>11835 | 11876          | 11918          | 11546<br>11959 | 11587<br>12000 | 12042          | 11669<br>12083 | 12125          | 12166          |
| 300                        | 12207          | 12249          | 12290          | 12332          | 12373          | 12415          | 12456          | 12498          | 12539          | 12581          |
| 310                        | 12623          | 12664          | 12706          | 12747          | 12789          | 12831          | 12872          | 12914          | 12955          | 12997          |
| 320                        | 13039          | 13080          | 13122          | 13164          | 13205          | 13247          | 13289          | 13331          | 13372          | 13414          |
| 330                        | 13456          | 13497          | 13539          | 13581          | 13623          | 13665          | 13706          | 13748          | 13790          | 13832          |
| 340                        | 13874          | 13915          | 13957          | 13999          | 14041          | 14083          | 14125          | 14167          | 14208          | 14250          |
| 350                        | 14292          | 14334          | 14376          | 14418          | 14460          | 14502          | 14544          | 14586          | 14628          | 14670          |
| 360                        | 14712          | 14754          | 14796          | 14838          | 14880          | 14922          | 14964          | 15006          | 15048          | 15090          |
| 370                        | 15132          | 15174          | 15216          | 15258          | 15300          | 15342          | 15384          | 15426          | 15468          | 15510          |
| 380                        | 15552          | 15594          | 15636          | 15679          | 15721          | 15763          | 15805          | 15847          | 15889          | 15931          |
| 390                        | 15974          | 16016          | 16058          | 16100          | 16142          | 16184          | 16227          | 16269          | 16311          | 16353          |
| 400<br>410                 | 16395<br>16818 | 16438<br>16860 | 16480<br>16902 | 16522<br>16945 | 16564<br>16987 | 16607<br>17029 | 16649<br>17072 | 16691<br>17114 | 16733<br>17156 | 16776<br>17199 |
| 410                        | 16818<br>17241 | 17283          | 17326          | 17368          | 17410          | 17029          | 17072          | 17114          | 17156<br>17580 | 17199          |
| 430                        | 17664          | 17707          | 17749          | 17792          | 17834          | 17876          | 17919          | 17961          | 18004          | 18046          |
| 440                        | 18088          | 18131          | 18173          | 18216          | 18258          | 18301          | 18343          | 18385          | 18428          | 18470          |
| 450                        | 18513          | 18555          | 18598          | 18640          | 18683          | 18725          | 18768          | 18810          | 18853          | 18895          |
|                            |                |                | 19023          | 19065          | 19108          | 19150          | 19193          | 19235          | 19278          | 19320          |
| 460                        | 18938          | 18980          | 19023          |                |                |                |                |                |                |                |
|                            | 18938<br>19363 | 19405          | 19448          | 19490          | 19533          | 19576          | 19618          | 19661          | 19703          | 19746          |
| 460                        |                |                |                |                |                |                |                |                |                |                |

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# Table d'équivalences normalisées °C/µV des thermocouples type K, selon IEC 584

| Col.      |      |       |       |       |       |       |       |       |       | Valeur | s en microvolt |
|--|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----------------|
| Section   Sect   |      |       | 1     |       |       |       |       |       |       |        | _              |
| Section   Sect   |      |       |       |       |       |       |       |       |       |        |                |
| Section   Page   |      |       |       |       |       |       |       |       |       |        |                |
| Georgia   Geor   |      |       |       |       |       |       |       |       |       |        |                |
| 960 22772 22816 22867 22900 22942 22905 23028 23070 23113 22156 900 23188 23247 23248 23358 23508 23417 23448 23457 23508 23458 900 24188 23417 23448 23458 23458 23508 23418 23417 23448 23458  |      |       |       |       |       |       |       |       |       |        |                |
| Section   Sect   |      |       |       |       |       |       |       |       |       |        |                |
| STO   23624   23667   22710   22752   22796   23837   23880   23023   23065   24080    |      |       |       |       |       |       |       |       |       |        |                |
| 590   24/96    |      |       |       |       |       |       |       |       |       |        |                |
| 590  |      |       |       |       |       |       |       |       |       |        |                |
| 600 24902 24944 24987 25028 25072 25114 25157 25189 25242 25284 25284 100 25157 25189 25482 25682 25682 25709 25000 25173 25184 25157 25189 25484 25800 25000 25173 25184 2518 |      |       |       |       |       |       |       |       |       |        |                |
| 610   25327   25369   26412   26454   26467   25539   25582   25624   25064   25051   25054   26565   26567   25257   25254   25064   25005   25054    |      |       |       |       |       |       |       |       |       |        |                |
| 630 28176 20218 20260 23330 26045 25387 26430 26472 26515 26567 4040 26472 26515 26567 2640 26472 26515 26567 2640 26472 26515 26569 2640 26452 26569 26476  |      |       |       |       |       |       |       |       |       |        |                |
| 660 2002 2003 2004 2008 2007 27149 27192 27214 27276 2719 2719 2719 2719 2719 2719 2719 2719   | 620  | 25751 |       | 25836 | 25879 | 25921 | 25964 | 26006 | 26048 | 26091  | 26133          |
| 960. 27022. 27065 27107 27140 27190 27244 27276 27181 27301 27401 600. 27445 27445 27467 27562 27572 27514 27656 27566 27566 27400 2745 27672 2768 27672 27674 27676 276 |      |       |       |       |       |       |       |       |       |        |                |
| 6960 27445 27467 27529 27572 27512 27514 27686 27768 27740 27763 27625 670 27687 27690 27661 27693 28693 28693 28693 28694 286 |      |       |       |       |       |       |       |       |       |        |                |
| 070 27867 27909 27961 27993 28036 28078 28120 28162 28204 28346 680 28563 28067 28067 28067 28068 28089 283330 285172 28014 28046 28058 28067 28068 28069 28 |      |       |       |       |       |       |       |       |       |        |                |
| 690  |      |       |       |       |       |       |       |       |       |        |                |
| 0900   28709   28751   28703   28835   28877   28919   28961   29002   29044   29086   7700   29126   29170   29126   29170   29136   29138   29338   29338   29338   29358    |      |       |       |       |       |       |       |       |       |        |                |
| 700  |      |       |       |       |       |       |       |       |       |        |                |
| 720         29665         300077         30049         30061         30152         30174         30216         30257         30299         30341           730         30383         30424         30466         30588         30549         30591         30622         30674         30716         30757           740         30793         30460         30882         30824         30805         31077         31048         31136         31131         3113         3216         32160         32241         32248         32248         32248         32248         32248         32248         32348         33490         33331         33072         33113         33113         33113         33113         33113         33113         33113         33113         33113         33114         33131         33113         33113         33113         33113  |      |       |       |       |       |       |       |       | 29422 |        |                |
| 730  |      |       |       |       | 29673 |       | 29756 |       |       |        | 29924          |
| 740 30799 30940 30982 30924 30965 31007 31048 31090 31131 31137 31176 750 31214 31266 31277 3139 31380 31380 31462 31663 3150 31546 31567 31546 31567 31546 31567 31546 31567 31546 31567 31569 31560 31567  |      |       |       |       |       |       |       |       |       |        |                |
| 750 31629 31670 31712 31753 31794 31830 31800 31462 31463 31504 31546 31687 770 32042 32084 32726 32768 32768 32207 32249 32290 32331 32372 32414 770 32042 32084 32726 32768 32267 32249 32290 32331 32372 32414 770 32042 32084 32726 32768 32007 32249 32290 32331 32372 32414 770 32042 32084 32726 32318 32767 32610 32610 32610 32703 3274 32745 32727 32414 770 32042 32084 32726 32318 32673 32610 32610 32610 32703 3274 32745 32727 32414 770 32042 32084 3208 |      |       |       |       |       |       |       |       |       |        |                |
| 760         31029         31070         31712         31753         31794         31338         31877         31918         31990         32017           770         32042         32045         32536         32278         32249         32373         32714 </td <td></td>   |      |       |       |       |       |       |       |       |       |        |                |
| 770 32042 32049 32126 32126 32168 32207 32249 32250 32331 32372 32414 780 32455 32459 32496 32537 32578 32619 32661 32702 32734 32784 32825 790 32866 32907 32946 32090 33031 33031 33072 33113 33164 33236 800 33277 33318 33559 33400 33441 33482 33522 33524 33504 33904 820 34275 33318 33559 33400 33441 33482 33522 33524 33504 33904 820 34055 34136 34136 34176 34217 34258 34259 34339 34350 34421 34461 820 34055 34136 34136 34176 34217 34258 34259 34339 34350 34421 34461 840 34909 34949 34999 35030 55071 55111 35152 35192 35233 35273 850 35314 35354 35359 35453 55071 55111 35152 35192 35233 35273 860 33718 34756 34524 34668 34705 35516 35597 35637 35637 860 33718 34756 34524 34668 34705 35516 36557 35637 35637 860 33718 34756 35506 35509 35639 35671 35511 35192 35192 35233 35273 860 37718 34756 35709 35639 35800 35800 3600 3600 36041 3608 |      |       |       |       |       |       |       |       |       |        |                |
| 760         32496         32490         324948         32690         324919         326919         326919         32702         3743         37784         32825           700         32866         32907         329448         32909         339313         33913         33113         33164         33804         33861         33841         33481         33482         33527         33604         33604         33604         33604         33604         33604         33604         33604         33804         33621         33481         33482         33327         3372         3372         3478         34804         34872         34782         34013         3402         34502         34502         34502         34502         34502         34502         34672         34683         34767         34477         34427         34688         34767         34478         344787         34427         34688         34766         34767         34272         34683         34683         35812         34623         36523         36507         35677         35677         35678         35799         35633         35634         36003         36041         36044         36604         36604         36604         36604         36604  |      |       |       |       |       |       |       |       |       |        |                |
| 790 32866 32807 32948 32990 33031 33072 33113 33154 33195 33236 800 33277 33318 33559 33400 33441 33462 33524 33524 33524 33554 3360 34421 34616 810 33686 33727 33758 33890 33850 33851 33931 33972 34013 34054 34056 34158 34178 34271 34259 34891 33931 33972 34013 34054 34056 34158 34178 34271 34259 34891 33931 33972 34013 34054 34056 34158 34178 34271 34259 34280 34339 34330 34421 34461 3460 3460 3460 3460 3460 3460 3460 3460   |      |       |       |       |       |       |       |       |       |        |                |
| 800 33277 33318 33359 33400 33417 33482 33523 33594 33604 33646<br>810 33666 33727 33768 33800 33891 33891 33931 33972 34013 34054<br>820 34055 34136 34176 42171 4258 4219 34339 34330 34421 34461<br>830 34002 34193 34153 34176 34217 34258 34299 34339 34350 34421 34461<br>840 34903 34943 34833 48624 34665 34705 43746 34746 34787 34827 34826<br>840 34903 34943 34983 34526 35035 35071 35116 33152 33152 3523 3223<br>8273 34943 34943 34983 35035 35071 35116 33152 33152 3523 3223<br>8273 3475 3475 3475 3475 3475 3475 3475 34   | 790  | 32866 | 32907 | 32948 | 32990 | 33031 | 33072 | 33113 | 33154 | 33195  | 33236          |
| 820 34095 34136 34176 34217 34258 34299 34339 4380 34421 34461 34661 346 |      |       |       |       |       |       |       |       |       |        |                |
| 840 34909 43499 34990 35030 35071 35111 35152 35233 35273 850 35514 35594 35594 35594 35594 35594 35595 35514 35395 35476 35516 35557 35597 35637 35678 850 35718 35758 35799 35635 35476 35516 35557 35597 35637 35678 870 35718 35758 35799 35635 35889 35920 35950 35000 36001 36011 36081 3670 36121 36162 36022 36242 36242 36282 36323 36363 36403 36403 36443 36681 36000 36014 36014 36081 36000 36014 360 |      |       |       |       |       |       |       |       |       |        |                |
| 840   34909   34949   34990   35930   35971   35111   35152   35192   33233   35273     860   35718   35534   35395   34345   33476   33516   35556   35597   35637   35678     860   35718   35758   35739   35830   35820   35920   35960   36000   36041   36081     870   36121   36162   36020   36242   36282   36323   36363   36403   36443     880   35524   36564   36604   36644   36684   36724   36724   36764   3804   36844   36885     890   35524   36564   36604   36644   36885   36764   3804   36844   36885     900   37325   37365   37405   37445   37486   37524   37564   37506   37245   37285     900   37325   37365   37405   37445   37484   37524   37564   37504   37644   37684     900   36722   36762   36864   36864   36881   36881   36881   38681     900   37325   37365   37405   37445   37846   37524   37564   37504   37644   37684     900   37425   37365   37405   37445   37884   37524   37564   37504   37644   37684     900   38510   38588   38598   38638   38638   38677   38777   38776   38796   38836   38836   38876     900   38916   38964   38994   39933   39073   39112   39152   39191   39211   39270     900   39703   39349   39388   33428   33467   33507   39546   39586   33625   3664     900   40079   40098   40136   40175   40214   40253   40282   40332   40371   40410   40449     990   40679   40918   40957   40996   41035   40684   40723   40762   40801   40840     990   40679   40918   40947   40996   41036   40484   40496   4   |      |       |       |       |       |       |       |       |       |        |                |
| 680         35314         36354         35399         35435         35476         35517         35597         35637         3678           870         36121         36162         36202         36242         36282         36323         36363         38403         36443         3648           880         36524         36604         36684         36724         36724         36784         38694         36824         36803         38403         36443         3648           890         36925         36966         37066         37046         37785         37726         37745         37265         37245         37245         37246         37745         37264         37764         3764  |      |       |       |       |       |       |       |       |       |        |                |
| 860 35718 35758 35799 35839 35880 35920 35980 36000 36041 36081 3708 3708 3708 37092 36121 36162 36202 36322 36323 36363 36403 36443 36483 880 36524 36564 36604 37604 3 |      |       |       |       |       |       |       |       |       |        |                |
| 870 36121 36162 36202 36242 36282 36323 36363 36403 36443 36484 3880 3880 36524 36564 36644 36864 36724 36764 38804 38804 38804 38805 36524 36564 36644 36864 36724 36764 38804 38804 38804 38805 36524 36566 37005 37045 37045 37045 37125 37165 37205 37245 37265 3704 |      |       |       |       |       |       |       |       |       |        |                |
| 880         36524         36564         36604         36644         36684         36724         37765         37745         37785         37715         37715         37764         37785         37725         37786         37764         377845         377844         377843         37843         37843         37824         37524         37504         37604         37644         37684           920         38122         38162         38201         38241         38281         38376         38400         38403         38407           380         38519         38588         38638         38677         38171         38766         38766         38838         38857           380         38915         38858         38638         38677         38717         38766         38766         38836         38836         388767         38717         38766         38786         38838         388757         38717         38766         38768         38836         38836         38836         38836         38858         38638         38867         38717         38766         38786         38836         38836         38836         38836         38836         388368         38836         38836         38836  |      |       |       |       |       |       |       |       |       |        |                |
| 900 37325 37365 37405 37444 37583 37484 37524 37564 37604 37644 37684 3910 37724 37764 37603 37603 37843 37883 37923 37963 38002 38042 38042 38082 920 38122 38162 38201 38241 38281 38320 38360 38400 38439 38479 393 38519 38558 38589 38638 38677 38717 38756 38796 38836 388875 40 38915 38954 38984 39033 39073 39112 39152 39191 39231 39270 950 39310 39349 39388 39828 39467 39507 39546 39556 39565 39626 40 39503 39749 39628 39621 39861 39900 39919 40018 40057 970 400586 40136 40175 40214 402253 40252 40332 40371 40410 40449 980 40488 40527 40566 40665 40645 40645 40684 40723 40762 40801 40840 990 40879 41080 41347 41335 41424 41463 41524 41131 41152 41191 41230 1000 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 41467 41084 41735 41774 41181 4152 41191 41230 1000 41269 42080 42080 42123 42164 42200 42218 42164 42203 42203 42204 42304 42303 42314 42316 42203 42316 42314 42355 42333 1070 43817 42356 43564 43684 43687 43685 43687 |      | 36524 |       |       |       | 36684 |       |       |       |        |                |
| 910 37724 37764 37803 37843 37883 37923 37963 38002 38042 38082 38092 920 38122 38162 38162 38201 38201 38201 38320 38390 38401 38230 38319 38258 38261 3826 |      |       |       |       |       |       |       |       |       |        |                |
| 920 38122 38162 38201 38241 38281 38300 38360 38400 36439 38479 390 3859 38576 38796 38836 38675 390 38519 38558 38598 38638 38677 38717 38756 38796 38836 38875 390 38819 38915 38954 38994 39033 39073 39112 39152 39191 39231 39270 3960 38910 39348 39388 39428 39467 39507 39507 39546 39585 39625 39664 960 39703 39743 39782 39821 39661 39900 39939 39979 40018 40057 40096 40136 40175 40214 40253 40292 40332 40371 40410 40449 980 40488 40527 40566 40605 40645 40684 40723 40762 408001 40840 990 40488 40527 40566 40605 40645 40684 40723 40762 408001 40840 1000 41269 41308 41347 41385 41424 41463 41502 415115 41191 41230 1000 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 41657 41696 41735 41774 41813 41850 41490 41920 41988 42006 1020 42045 42084 42123 42161 42200 42239 42277 42316 42355 42393 1030 42432 42470 42509 42548 42984 42933 42971 43010 43048 43087 43125 43164 1050 43202 43240 43279 43317 43356 43394 43432 43471 43599 43547 1050 43502 43240 43279 43317 43356 43394 43432 43471 43599 43547 1050 43502 43240 43279 43317 43356 43411 43197 43255 43384 14157 4386 44006 43444 44082 44121 44119 44159 44197 44235 44273 4311 1080 43439 44397 44425 44463 44501 44509 44779 43615 43563 43602 43700 43739 43777 43615 43853 43891 43930 1070 43988 44006 44044 44082 44121 44159 44197 44235 44273 44311 1080 44729 44767 44805 44843 44861 44919 44957 44999 4995 45033 45070 1100 45108 45146 45184 45259 45637 45675 45678 4567 |      |       |       |       |       |       |       |       |       |        |                |
| 930 38519 38558 38598 38638 38677 38717 38756 38796 38836 38875 940 38815 38954 39033 39073 39112 3915 39231 39270 950 38310 38915 38954 39033 39073 39162 39191 39231 39270 950 38310 38948 39368 39428 39467 39507 39546 39585 38625 39662 960 39703 39743 39782 39821 39861 39807 3993 39979 40018 40057 970 40096 40136 40175 40214 40253 40292 40332 40371 40410 40449 990 40488 40527 40566 40605 40645 40684 40723 40762 40801 40801 40804 990 40488 40527 40566 40605 40645 40684 40723 40762 40801 40801 40804 990 40879 40918 40957 40996 41035 41074 41113 41152 41151 41250 41619 1010 41657 41696 41735 41744 41813 41851 41890 41929 41988 42006 1020 42045 42046 42123 42161 42200 42239 42245 42393 42316 42355 42303 1030 42424 42470 42509 42588 42586 42625 42663 42702 42740 42550 42588 42598 42684 42684 42684 42933 42971 43910 4308 43087 43155 43164 1050 43585 43592 43200 43202 43240 43279 43317 43596 43594 43497 43598 43592 43594 43598 43692 43704 43692 43704 43692 43709 43799 43797 43888 44006 44044 44082 44711 44559 44797 43596 43585 43594 43622 43700 43799 43797 4388 43096 43885 43624 43627 44465 44683 44691 44559 44697 44577 44585 43692 43700 43799 43797 4388 44006 44044 44082 44121 44159 44197 44235 44273 44365 1000 44729 44317 44365 44483 44591 44559 44597 44595 4563 45604 45605 45606 |      |       |       |       |       |       |       |       |       |        |                |
| 940 38915 38954 38994 39033 39073 39112 39152 39191 39231 39270 950 39703 39743 39782 39821 39861 39900 39939 39979 40018 40057 970 40096 40136 40175 40214 40253 40290 39939 39979 40018 40057 970 40096 40136 40175 40214 40253 40292 40332 40371 40410 40449 980 40488 40527 40566 40605 40645 40684 40723 40762 40801 40840 980 40489 40134 40957 40966 40605 40645 40684 40723 40762 40801 40840 1000 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 4269 42046 42084 42123 42161 42200 42239 42277 42316 42355 42393 1030 42432 42470 42509 42548 42586 42625 42663 42702 42740 42779 1040 42817 42866 42894 42933 42971 43010 43048 43087 43125 43164 1050 43805 43602 43240 43279 43317 43356 43394 43432 43471 43559 43547 1060 43865 43624 43662 43700 43739 43777 43815 43853 43891 43930 1070 43708 44789 44767 44805 44463 44501 4459 44597 44615 44653 44691 1080 44799 44767 44805 44843 44881 44919 44597 44615 44653 44691 1090 44729 44767 44805 44843 44881 44919 44597 44615 44653 44691 1100 45108 45146 45184 45222 45260 45297 45335 45373 45411 45488 1100 45108 45 |      |       |       |       |       |       |       |       |       |        |                |
| 980 39310 39349 39388 39428 39467 39507 39546 39685 39625 39664 960 39703 39714 40018 40057 970 40096 40136 40175 40214 40253 40292 40332 40371 40410 40449 980 40488 40527 40556 40605 40 |      |       |       |       |       |       |       |       |       |        |                |
| 960 39703 39743 39782 39821 39861 39900 39939 39979 40018 40057 970 40096 40136 40136 40175 40214 40253 40292 40332 40371 40410 40449 980 40488 40527 40566 40605 40645 40684 40723 40762 40801 40840 990 40879 40918 40957 40966 41035 41074 41173 41152 41191 41230 1000 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 4269 41308 41347 41386 41424 41463 41502 41541 41580 41619 1010 42617 41580 4123 42161 42200 42239 42277 42316 42385 42393 1030 42432 42240 42273 42161 42200 42239 42277 42316 42385 42393 1030 42432 42240 42824 42833 42871 43010 43048 43087 43125 43164 1050 43202 43240 43279 43317 43356 43394 43482 43087 43125 43164 1050 43202 43240 43279 43317 43356 43394 43432 43471 43509 43547 1070 43968 44006 44044 44082 44121 44159 44197 44235 44273 44311 1080 44239 44387 44425 44463 44881 44919 44577 44615 44653 44691 1090 44729 44767 44805 44843 44881 44919 44957 44961 44653 44691 1100 45108 45146 45184 45222 45260 45297 45635 45633 45671 45633 45071 1100 45686 45524 45561 45599 45637 45675 45712 45750 45787 45825 1120 45863 46275 46313 46350 46388 46425 46463 46500 46587 45848 1110 45486 45524 45661 45599 45637 45675 45712 45750 45787 45825 1120 45863 46275 46313 46350 46388 46425 46463 46500 46537 45641 1150 45866 47022 47059 47096 47134 4711 47208 47245 47262 47319 1160 47366 47393 47430 47468 48704 49910 49947 49983 49010 49948 1150 48665 47022 47059 47096 47134 4711 47208 47245 47282 47319 1170 47726 47763 47800 47837 47874 47911 47948 47985 48031 48091 1170 47726 47763 47800 47837 47874 47911 47948 47985 48031 48091 1170 47726 47763 47800 47837 47874 47911 47948 47985 48091 49091 1180 48462 48499 48556 48561 51850 51856 51525 50685 50592 50598 1180 48665 47022 47059 47096 47134 47111 47208 47245 47282 47319 1190 48662 54664 5564 5561 5665 5656 5652 50598 5004 50090 50096 50132 50188 50204 50598 5004 50090 50096 50132 50188 50204 50598 5004 50090 50096 50132 5018 |      |       |       |       |       |       |       |       |       |        |                |
| 980 40488 40527 40566 40605 40645 40684 40723 40762 40801 40840 990 40879 40918 40957 40996 41035 41074 41113 41152 4191 11230 1000 41269 41308 41347 41385 41424 41463 41502 41541 41580 41619 1010 41657 41696 41735 4174 41813 41851 41861 41890 41929 41968 42006 1020 42045 42084 42123 42161 42200 42239 42277 42316 42355 42933 1030 42432 42470 42509 42548 42683 42605 4260 |      |       |       |       |       | 39861 |       |       |       |        |                |
| 990 40879 40918 40996 41035 41074 41113 41152 41191 41230 1000 1200 1208 11347 13485 11424 41463 41502 41541 41580 11619 1010 41667 41696 41735 41774 41813 41861 41890 41929 41968 42006 1020 42045 42084 42123 42161 42200 42239 42277 42316 42255 42393 1030 42432 42470 42509 42548 42586 42625 42663 42702 42740 42779 1040 42817 42856 42894 42123 42161 42200 42239 42971 43048 43087 43125 43164 1050 43202 43240 43279 43317 43556 43394 43432 43471 43509 43547 1060 43585 43624 43662 43700 43739 43777 43815 43853 43273 43911 1070 43986 44006 44044 44082 44121 44159 44197 44235 44273 44311 1080 44349 44387 44425 44463 44501 4459 44577 44615 44653 44661 1090 44729 44767 44805 44843 44881 44919 44957 4495 45033 45070 1100 45108 45146 45184 45222 45260 45297 45335 45373 45411 45448 1110 45486 45524 45561 45599 45637 46013 46083 46025 45080 45988 45975 46013 46083 46025 45080  |      |       |       |       |       |       |       |       |       |        |                |
| 10100  |      |       |       |       |       |       |       |       |       |        |                |
| 1010   |      |       |       |       |       |       |       |       |       |        |                |
| 1020   |      |       |       |       |       |       |       |       |       |        |                |
| 1030   |      |       |       |       |       |       |       |       |       |        |                |
| 1040   |      |       |       |       |       |       |       |       |       |        |                |
| 1060   |      |       |       |       |       |       |       |       |       | 43125  |                |
| 1070   |      |       |       |       |       |       |       |       |       |        |                |
| 1080         44349         44387         44425         44463         44501         44539         44577         44615         44683         44691           1090         44729         44767         44805         44843         44811         44919         44957         44995         45033         45070           1100         45108         45146         45184         45222         45260         45297         45335         45373         45411         45448           1110         45486         45524         45561         45599         45637         45675         45712         45750         45787         45825           1120         45863         45900         45938         45975         46013         46011         46088         46126         46163         46201           1130         46238         46275         46313         46350         46388         46425         46463         46500         46537         46575           1150         49685         47022         47059         47096         47134         47171         47208         47245         47282         47319           1160         47356         47763         47800         4768         47505   |      |       |       |       |       |       |       |       |       |        |                |
| 1090         44729         44767         44805         44843         44881         44919         44957         44995         4503         45070           1100         45108         45146         45184         45222         45260         45297         45335         45373         45411         45448           1110         45868         45524         45561         45599         45637         45675         45712         45750         45767         45825           1120         45863         45900         45938         45975         46013         46051         46088         46126         46163         46201           1130         46233         46275         46313         46350         46384         46420         46500         46537         46575           1140         46612         46649         46687         46724         46761         46799         46836         46873         46910         46948           1150         46965         47022         47059         47096         47134         47171         47208         47242         47319           1160         43566         47333         47430         47430         474874         47911         47908  |      |       |       |       |       |       |       |       |       |        |                |
| 1100         45108         45146         45184         45222         45260         45297         45335         45373         45411         45486           1110         45486         45524         45561         45599         45637         45675         45712         45750         45787         45825           1120         45863         45900         45938         45975         46013         46051         46088         46126         46163         46201           1130         46238         46275         46313         46350         46388         46425         46463         46500         46537         46575           1140         46612         46649         46687         46724         46761         46799         46836         46873         46910         46948           1150         46965         47022         47059         47096         47134         47171         47208         47245         47282         47319           1160         47356         47393         47430         47468         47505         47542         47579         47616         47653         47689           1180         48095         48132         48169         48205         48242  |      |       |       |       |       |       |       |       |       |        |                |
| 1110         45486         45524         45561         45599         45637         45675         45712         45750         45787         45825           1120         45863         45900         45938         45975         46013         46013         46088         46126         46163         46201           1130         46238         46275         46313         46350         46388         46425         46463         46637         46910         46965           1140         46612         46649         46687         46724         46761         46799         46836         46873         46910         46948           1150         46965         47022         47059         47096         47134         47171         47208         47245         47282         47319           1170         47726         4763         47800         47837         47874         47911         47948         47985         48021         48058           1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1200         48828         48665         48901         48937         48974   |      |       |       |       |       |       |       |       |       |        |                |
| 1120         45863         45900         45938         45975         46013         46051         46088         46126         46163         46201           1130         46238         46275         46313         46350         46388         46425         46463         46500         46537         46575           1140         46612         46649         46687         46724         46761         46799         46836         48873         46910         46948           1150         46965         47022         47059         47096         47134         47171         47208         47245         47282         47319           1160         47356         47393         47430         47468         47505         47542         47579         47616         47653         47689           1170         47726         47763         47800         47837         47874         47911         47948         47985         48021         4805           1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1190         48462         48499         48536         48572         48609   |      | 45486 |       |       | 45599 |       |       | 45712 |       |        |                |
| 1140         46612         46649         46687         46724         46761         46799         46836         46873         46910         46948           1150         46965         47022         47059         47096         47134         47171         47208         47245         47282         47319           1160         47356         47393         47430         47468         47505         47542         47579         47616         47653         47689           1170         47726         47763         47800         47837         47874         47911         47948         47985         48021         48058           1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1190         48462         48499         48536         48572         48609         48645         48682         48718         48755         48792           1200         48828         48861         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49229         49265         49301         49338  | 1120 | 45863 | 45900 | 45938 | 45975 | 46013 | 46051 | 46088 | 46126 | 46163  | 46201          |
| 1150         46965         47022         47059         47096         47134         47171         47208         47245         47282         47319           1160         47356         47393         47430         47468         47505         47579         47616         47653         47689           1170         47726         47763         47800         47837         47874         47911         47948         47985         48021         48058           1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1190         48462         48499         48536         48572         48609         48645         48682         48718         48755         48792           1200         48828         48865         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49265         49301         49338         49374         49010         49047         49083         49519           1220         49555         49591         49627         49663         49700         49736         49772  |      |       |       |       |       |       |       |       |       |        |                |
| 1160         47356         47393         47430         47468         47505         47542         47579         47616         47633         47689           1170         47726         47763         47800         47837         47874         47911         47948         47985         48021         48058           1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1190         48462         48499         48536         48572         48609         48645         48682         48718         48755         48792           1200         48828         48865         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49229         49265         49301         49338         49374         49410         49446         49483         49519           1220         49555         49591         49663         49700         49736         49772         49808         49844         4980           1230         49916         49952         49988         50024         50060         50096   |      |       |       |       |       |       |       |       |       |        |                |
| 1170         47726         47763         47800         47837         47874         47911         47948         47985         48021         48058           1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1190         48462         48499         48536         48572         48609         48645         48682         48718         48755         48792           1200         48828         48665         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49229         49265         49301         49338         49374         49410         49466         49483         49519           1220         49555         49591         49663         49700         49736         49772         49808         49844         49880           1230         49916         49985         49988         50024         50060         50060         50060         50132         50168         50168         50240           1240         50276         50311         50347         50383         50419  |      |       |       |       |       |       |       |       |       |        |                |
| 1180         48095         48132         48169         48205         48242         48279         48316         48352         48389         48426           1190         48462         48499         48536         48572         48609         48645         48682         48718         48755         48792           1200         48828         48865         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49229         49265         49301         49338         49374         49410         49446         49483         49519           1220         49555         49591         49627         49663         49700         49736         49772         49808         49844         49880           1230         49916         49952         49988         50024         50060         50096         50132         50168         50204         50240           1240         50276         50311         50347         50383         50419         50455         50491         50526         50562         50598           1250         50633         50669         50705         50741         50776  |      |       |       |       |       |       |       |       |       |        |                |
| 1190         48462         48499         48536         48572         48609         48645         48682         48718         48755         48792           1200         48828         48865         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49229         49265         49301         49338         49374         49410         49446         49483         49519           1220         49555         49591         49627         49663         49700         49736         49772         49808         49844         49880           1230         49916         49952         49988         50024         50060         50096         50132         50168         50204         50240           1240         50276         50311         50347         50383         50419         50455         50491         50526         50562         50598           1250         50633         50669         50705         50741         50776         50812         50847         50883         50919         50954           1260         50990         51025         51061         51096         51132  |      |       |       |       |       |       |       |       |       |        |                |
| 1200         48828         48865         48901         48937         48974         49010         49047         49083         49120         49156           1210         49192         49229         49265         49301         49338         49374         49410         49446         49483         49519           1220         49555         49591         49627         49663         49700         49736         49772         49808         49844         49880           1230         49916         49952         49988         50024         50060         50096         50132         50168         50204         50240           1240         50276         50311         50347         50383         50419         50455         50491         50526         50562         50598           1250         50633         50669         50705         50741         50776         50812         50847         50883         50919         50954           1260         50990         51025         51061         51096         51132         51167         51203         51238         51274         51309           1270         51344         51380         51415         51450         51486  |      |       |       |       |       |       |       |       |       |        |                |
| 1220         49555         49591         49627         49663         49700         49736         49772         49808         49844         49880           1230         49916         49952         49988         50024         50060         50096         50132         50168         50204         50240           1240         50276         50311         50347         50383         50419         50455         50491         50526         50562         50598           1250         50633         50669         50705         50741         50776         50812         50847         50883         50919         50954           1260         50990         51025         51061         51096         51132         51167         51203         51238         51274         51309           1270         51344         51380         51415         51450         51486         51521         51556         51592         51627         51662           1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189  | 1200 | 48828 | 48865 | 48901 | 48937 | 48974 | 49010 | 49047 | 49083 | 49120  | 49156          |
| 1230         49916         49952         49988         50024         50060         50096         50132         50168         50204         50240           1240         50276         50311         50347         50383         50419         50455         50491         50526         50562         50598           1250         50633         50669         50705         50741         50776         50812         50847         50883         50919         50954           1260         50990         51025         51061         51096         51132         51167         51203         51238         51274         51309           1270         51344         51380         51415         51450         51486         51521         51556         51592         51627         51662           1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189         52224         52259         5294         52329         52364           1300         52388         52433         52468         52503         52538   |      |       |       |       |       |       |       |       |       |        |                |
| 1240         50276         50311         50347         50383         50419         50455         50491         50526         50562         50598           1250         50633         50669         50705         50741         50776         50812         50847         50883         50919         50954           1260         50990         51025         51061         51096         51132         51167         51203         51238         51274         51309           1270         51344         51380         51415         51450         51486         51521         51556         51592         51627         51662           1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189         52224         52259         52294         52329         52364           1300         52398         52433         52468         52503         52538         52573         52608         52642         52677         52712           1310         52747         52781         52816         52851         52866  |      |       |       |       |       |       |       |       |       |        |                |
| 1250         50633         50669         50705         50741         50776         50812         50847         50883         50919         50954           1260         50990         51025         51061         51096         51132         51167         51203         51238         51274         51309           1270         51344         51380         51415         51450         51486         51521         51556         51592         51627         51662           1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189         52224         52259         52294         52329         52364           1300         52398         52433         52468         52503         52538         52573         52608         52642         52677         52712           1310         52747         52781         52816         52851         52886         52920         52955         52989         53024         53059           1320         53093         53128         53162         53197         53232  |      |       |       |       |       |       |       |       |       |        |                |
| 1260         50990         51025         51061         51096         51132         51167         51203         51238         51274         51309           1270         51344         51380         51415         51450         51486         51521         51556         51592         51627         51662           1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189         52224         52259         5294         52329         52364           1300         52398         52433         52468         52503         52538         52573         52608         52642         52677         52712           1310         52747         52781         52816         52851         52886         52920         52955         52989         53024         53059           1320         53093         53128         53162         53197         53232         53266         53301         53335         5370         53404           1330         53439         53473         53851         53852         53576  |      |       |       |       |       |       |       |       |       |        |                |
| 1270         51344         51380         51415         51450         51486         51521         51556         51592         51627         51662           1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189         52224         52259         52294         52329         52364           1300         52398         52433         52468         52503         52538         52573         52608         52642         52677         52712           1310         52747         52781         52816         52851         52886         52920         52955         52989         53024         53059           1320         53093         53128         53162         53197         53232         53266         53301         53335         53370         53404           1330         53439         53473         53507         53542         53576         53611         53645         53679         53714         53748           1340         53782         53817         53851         53855         53920  |      |       |       |       |       |       |       |       |       |        |                |
| 1280         51697         51733         51768         51803         51838         51873         51908         51943         51979         52014           1290         52049         52084         52119         52154         52189         52224         52259         52294         52329         52364           1300         52398         52433         52468         52503         52538         52573         52608         52642         52677         52712           1310         52747         52781         52816         52851         52866         52920         52955         52989         53024         53059           1320         53093         53128         53162         53197         53232         53266         53301         53335         53370         53404           1330         53439         53473         53507         53542         53576         53611         53645         53679         53714         53748           1340         53782         53817         53851         53885         53920         53954         53988         54022         54057         54091           1350         54125         54159         54193         54228         54262  | 1270 | 51344 | 51380 | 51415 | 51450 | 51486 | 51521 | 51556 | 51592 | 51627  | 51662          |
| 1300         52398         52433         52468         52503         52538         52573         52608         52642         52677         52712           1310         52747         52781         52816         52851         52886         52920         52955         52989         53024         53059           1320         53093         53128         53162         53197         53232         53266         53301         53335         53370         53404           1330         53439         53473         53507         53542         53576         53611         53645         53679         53714         53748           1340         53782         53817         53851         53855         53920         53954         53988         54022         54057         54091           1350         54125         54159         54193         54228         54262         54296         54330         54364         54398         54432  |      |       |       |       |       |       |       |       | 51943 |        |                |
| 1310         52747         52781         52816         52851         52886         52920         52955         52989         53024         53059           1320         53093         53128         53162         53197         53232         53266         53301         53335         53370         53404           1330         53439         53473         53507         53542         53576         53611         53645         53679         53714         53748           1340         53782         53817         53851         53855         53920         53954         53988         54022         54057         54091           1350         54125         54159         54193         54228         54262         54296         54330         54364         54398         54432   |      |       |       |       |       |       |       |       |       |        |                |
| 1320     53093     53128     53162     53197     53232     53266     53301     53335     53370     53404       1330     53439     53473     53507     53542     53576     53611     53645     53679     53714     53748       1340     53782     53817     53851     53885     53920     53954     53988     54022     54057     54091       1350     54125     54159     54193     54228     54262     54296     54330     54364     54398     54432  |      |       |       |       |       |       |       |       |       |        |                |
| 1330     53439     53473     53507     53542     53576     53611     53645     53679     53714     53748       1340     53782     53817     53851     53885     53920     53954     53988     54022     54057     54091       1350     54125     54159     54193     54228     54262     54296     54330     54364     54398     54432   |      |       |       |       |       |       |       |       |       |        |                |
| 1340         53782         53817         53851         53885         53920         53954         53988         54022         54057         54091           1350         54125         54159         54193         54228         54262         54296         54330         54364         54398         54432  |      |       |       |       |       |       |       |       |       |        |                |
| <u>1350</u> <u>54125</u> <u>54159</u> <u>54193</u> <u>54228</u> <u>54262</u> <u>54296</u> <u>54330</u> <u>54364</u> <u>54398</u> <u>54432</u>  |      |       |       |       |       |       |       |       |       |        |                |
|  | 1350 | 54125 | 54159 | 54193 | 54228 | 54262 | 54296 | 54330 | 54364 | 54398  |                |
|  | 1360 | 54466 | 54501 | 54535 | 54569 | 54603 | 54637 | 54671 | 54705 | 54739  | <u> </u>       |

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# Table d'équivalences normalisées °C/µV des thermocouples type N, selon IEC 584

Valeurs en microvolt

| °C   | 0     | -1    | -2    | -3    | -4    | -5    | -6    | -7    | -8    | -9    |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -200 | -3990 | -4083 | -4162 | -4227 | -4227 | -4313 | -4336 | -4345 |       |       |
| -100 | -2407 | -2612 | -2807 | -2994 | -3170 | -3336 | -3491 | -3634 | -3766 | -3884 |
| - 0  | 0     | -260  | -518  | -772  | -1023 | -1268 | -1509 | -1744 | -1972 | -2193 |
| °C   | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0    | 0     | 261   | 525   | 793   | 1064  | 1339  | 1619  | 1902  | 2188  | 2479  |
| 100  | 2774  | 3072  | 3374  | 3679  | 3988  | 4301  | 4617  | 4936  | 5258  | 5584  |
| 200  | 5912  | 6243  | 6577  | 6914  | 7254  | 7596  | 7194  | 8287  | 8636  | 8987  |
| 300  | 9340  | 9695  | 10053 | 10412 | 10772 | 11135 | 11499 | 11865 | 12233 | 12602 |
| 400  | 12972 | 13344 | 13717 | 14091 | 14467 | 14844 | 15222 | 15601 | 15981 | 16362 |
| 500  | 16744 | 17127 | 17511 | 17896 | 18282 | 18668 | 19055 | 19443 | 19831 | 20220 |
| 600  | 20609 | 20999 | 21390 | 21781 | 22172 | 22564 | 22956 | 23348 | 23740 | 24133 |
| 700  | 24526 | 24919 | 25312 | 25705 | 26098 | 26491 | 26885 | 27278 | 27671 | 28063 |
| 800  | 28456 | 28849 | 29241 | 29633 | 30025 | 30417 | 30808 | 31199 | 31590 | 31980 |
| 900  | 32370 | 32760 | 33149 | 33538 | 33926 | 34315 | 34702 | 35089 | 35476 | 35862 |
| 1000 | 36248 | 36633 | 37018 | 37402 | 37786 | 38169 | 38552 | 38934 | 39315 | 39696 |
| 1100 | 40076 | 40456 | 40835 | 41213 | 41590 | 41966 | 42342 | 42717 | 43091 | 43464 |
| 1200 | 43836 | 44207 | 44577 | 44947 | 45315 | 45682 | 46048 | 46413 | 46777 | 47140 |

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# Table d'équivalences normalisées °C/µV des thermocouples type J, selon IEC 584

Valeurs en microvolt

|              |                |                |                |                |                |                |                |                | Valeur         | s en microvolt |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| °C           | 0              | -1             | -2             | -3             | -4             | -5             | -6             | -7             | -8             | -9             |
| -200         | -7890          | -7912          | -7934          | -7955          | -7976          | -7996          | -8017          | -8037          | -8057          | -8076          |
| -190         | -7659          | -7683          | -7707          | -7731          | -7755          | -7778          | -7801          | -7824          | -7846          | -7868          |
| -180         | -7403          | -7429          | -7456          | -7482          | -7508          | -7534          | -7559          | -7585          | -7610          | -7634          |
| -170         | -7123          | -7152          | -7181          | -7209          | -7237          | -7265          | -7293          | -7321          | -7348          | -7376          |
| -160         | -6821          | -6853          | -6883          | -6914          | -6944          | -6975          | -7005          | -7035          | -7064          | -7094<br>6700  |
| -150<br>-140 | -6500<br>-6159 | -6533<br>-6194 | -6566<br>-6229 | -6598<br>-6263 | -6631<br>-6298 | -6663<br>-6332 | -6695<br>-6366 | -6727<br>-6400 | -6759<br>-6433 | -6790<br>-6467 |
| -140         | -5801          | -5838          | -5874          | -5203          | -5946          | -5982          | -6018          | -6054          | -6089          | -6124          |
| -120         | -5426          | -5465          | -5503          | -5541          | -5578          | -5616          | -5653          | -5690          | -5727          | -5764          |
| -110         | -5037          | -5076          | -5116          | -5155          | -5194          | -5233          | -5272          | -5311          | -5350          | -5388          |
| -100         | -4633          | -4674          | -4714          | -4755          | -4796          | -4836          | -4877          | -4917          | -4957          | -4997          |
| -90          | -4215          | -4257          | -4300          | -4342          | -4384          | -4425          | -4467          | -4509          | -4550          | -4591          |
| -80          | -3786          | -3829          | -3872          | -3916          | -3959          | -4002          | -4045          | -4088          | -4130          | -4173          |
| -70          | -3344          | -3389          | -3434          | -3478          | -3522          | -3566          | -3610          | -3654          | -3698          | -3742          |
| -60          | -2893          | -2938          | -2984          | -3029          | -3075          | -3120          | -3165          | -3210          | -3255          | -3300          |
| -50          | -2431          | -2478          | -2524          | -2571          | -2617          | -2663          | -2709          | -2755          | -2801          | -2847          |
| -40          | -1961          | -2008          | -2055          | -2103          | -2150          | -2197          | -2244          | -2291          | -2338          | -2385          |
| -30          | -1482          | -1530          | -1578          | -1626          | -1674          | -1722          | -1770          | -1818          | -1865          | -1913          |
| -20          | -995           | -1044          | -1093          | -1142          | -1190          | -1239          | -1288          | -1336          | -1385          | -1433          |
| -10          | -501           | -550           | -600           | -650           | -699           | -749           | -798           | -847           | -896           | -946           |
| °C           | 0              | -50<br>1       | -101<br>2      | -151<br>3      | -201<br>4      | -251<br>5      | -301<br>6      | -351<br>7      | -401<br>8      | -451<br>9      |
| 0            | 0              | 50             | 101            | 151            | 202            | 253            | 303            | 354            | 405            | 456            |
| 10           | 507            | 558            | 609            | 660            | 711            | 762            | 814            | 865            | 916            | 968            |
| 20           | 1019           | 1071           | 1122           | 1174           | 1226           | 177            | 1329           | 1381           | 1433           | 1485           |
| 30           | 1537           | 1589           | 1641           | 1693           | 1745           | 1797           | 1849           | 1902           | 1954           | 2006           |
| 40           | 2059           | 2111           | 2164           | 2216           | 2269           | 2322           | 2374           | 2427           | 2480           | 2532           |
| 50           | 2585           | 2638           | 2691           | 2744           | 2797           | 2850           | 2903           | 2956           | 3009           | 3062           |
| 60           | 3116           | 3169           | 3222           | 3275           | 3329           | 3382           | 3436           | 3489           | 3543           | 3596           |
| 70           | 3650           | 3703           | 3757           | 3810           | 3864           | 3918           | 3971           | 4025           | 4079           | 4133           |
| 80           | 4187           | 4240           | 4294           | 4348           | 4402           | 4456           | 4510           | 4564           | 4618           | 4672           |
| 90           | 4726           | 4781           | 4835           | 4889           | 4943           | 4997           | 5052           | 5106           | 5160           | 5215           |
| 100          | 5269           | 5323           | 5378           | 5432           | 5487           | 5541           | 5595           | 5650           | 5705           | 5759           |
| 110          | 5814           | 5868           | 5923           | 5977           | 6032           | 6087           | 6141           | 6196           | 6251           | 6306           |
| 120<br>130   | 6360<br>6909   | 6415<br>6964   | 6470<br>7019   | 6525<br>7074   | 6579<br>7129   | 6634<br>7184   | 6689<br>7239   | 6744<br>7294   | 6799<br>7349   | 6854<br>7404   |
| 140          | 7459           | 7514           | 7569           | 7624           | 7679           | 7734           | 7789           | 7844           | 7900           | 7955           |
| 150          | 8010           | 8065           | 8120           | 8175           | 8231           | 8286           | 8341           | 8396           | 8452           | 8507           |
| 160          | 8562           | 8618           | 8673           | 8728           | 8783           | 8839           | 8894           | 8949           | 9005           | 9060           |
| 170          | 9115           | 9171           | 9226           | 9282           | 9337           | 9392           | 9448           | 9503           | 9559           | 9614           |
| 180          | 9669           | 9725           | 9780           | 9836           | 9891           | 9947           | 10002          | 10057          | 10113          | 10168          |
| 190          | 10224          | 10279          | 10335          | 10390          | 10446          | 10501          | 10557          | 10612          | 10668          | 10723          |
| 200          | 10779          | 10834          | 10890          | 10945          | 11001          | 11056          | 11112          | 11167          | 11223          | 11278          |
| 210          | 11334          | 11389          | 114445         | 11501          | 11556          | 11612          | 11667          | 11723          | 11778          | 11834          |
| 220          | 11889          | 11945          | 12000          | 12056          | 12111          | 12167          | 12222          | 12278          | 12334          | 12389          |
| 230          | 12445          | 12500          | 12556          | 12611          | 12667<br>13222 | 12722          | 12778          | 12833          | 12889          | 12944          |
| 240<br>250   | 13000<br>13555 | 13056<br>13611 | 13111<br>13666 | 13167<br>13722 | 13777          | 13278<br>13833 | 13333<br>13888 | 13389<br>13944 | 13444<br>13999 | 13500<br>14055 |
| 260          | 14110          | 14166          | 14221          | 14277          | 14332          | 14388          | 14443          | 14499          | 14554          | 14609          |
| 270          | 14665          | 14720          | 14776          | 14831          | 14887          | 14942          | 14998          | 15053          | 15109          | 15164          |
| 280          | 15219          | 15275          | 15330          | 15386          | 15441          | 15496          | 15552          | 15607          | 15663          | 15718          |
| 290          | 15773          | 15829          | 15884          | 15940          | 15995          | 16050          | 16106          | 16161          | 16216          | 16272          |
| 300          | 16327          | 16383          | 16438          | 16493          | 16549          | 16604          | 16659          | 16715          | 16770          | 16825          |
| 310          | 16881          | 16936          | 16991          | 17046          | 17102          | 17157          | 17212          | 17268          | 17323          | 17378          |
| 320          | 17434          | 17489          | 17544          | 17599          | 17655          | 17710          | 17765          | 17820          | 17876          | 17931          |
| 330          | 17986          | 18041          | 18097          | 18152          | 18207          | 18262          | 18318          | 18373          | 18428          | 18483          |
| 340          | 18538          | 18594          | 18649          | 18704          | 18759          | 18814          | 18870          | 18925          | 18980          | 19035          |
| 350<br>360   | 19090<br>19642 | 19146          | 19201          | 19256<br>19808 | 19311          | 19366          | 19422          | 19477          | 19532          | 19587          |
| 360<br>370   | 20194          | 19697<br>20249 | 19753<br>20304 | 20359          | 19863<br>20414 | 19918<br>20469 | 19973<br>20525 | 20028<br>20580 | 20083<br>20635 | 20139<br>20690 |
| 380          | 20745          | 20800          | 20855          | 20339          | 20966          | 21021          | 21076          | 21131          | 21186          | 21241          |
| 390          | 21297          | 21352          | 21407          | 21462          | 21517          | 21572          | 21627          | 21683          | 21738          | 21793          |
| 400          | 21848          | 21903          | 21958          | 22014          | 22069          | 22124          | 22179          | 22234          | 22289          | 22345          |
| 410          | 22400          | 22455          | 22510          | 22565          | 22620          | 22676          | 22731          | 22786          | 22841          | 22896          |
| 420          | 22952          | 23007          | 23062          | 23117          | 23172          | 23228          | 23283          | 23338          | 23393          | 23449          |
| 430          | 23504          | 23559          | 23614          | 23670          | 23725          | 23780          | 23835          | 23891          | 23946          | 24001          |
| 440          | 24057          | 24112          | 24167          | 24223          | 24278          | 24333          | 24389          | 24444          | 24499          | 24555          |
| 450          | 24610          | 24665          | 24721          | 24776          | 24832          | 24887          | 24943          | 24998          | 25053          | 25109          |
| 460          | 25164          | 25220          | 25275          | 25331          | 25386          | 25442          | 25497          | 25553          | 25608          | 25664          |
| 470          | 25720          | 25775          | 25831          | 25886          | 25942          | 25998          | 26053          | 26109          | 26165          | 26220          |
| 480<br>490   | 26276<br>26834 | 26332          | 26387<br>26945 | 26443<br>27001 | 26499<br>27057 | 26555<br>27113 | 26610<br>27169 | 26666          | 26722<br>27281 | 26778<br>27337 |
| 490          | 20034          | 26889          | 20945          | 21001          | 27057          | 21113          | 21 109         | 27225          | 21201          | 21331          |

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# Table d'équivalences normalisées °C/µV des thermocouples type J, selon IEC 584

Valeurs en microvolt

|              | 1                       | 1              | 1              |                |                |                | 1              |                |                | s en microvolt |
|--------------|-------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| °C           | 0                       | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              |
| 500          | 27393                   | 27449          | 27505          | 27561          | 27617          | 27673          | 27729          | 27785          | 27841          | 27897          |
| 510          | 27953                   | 28010          | 28066          | 28122          | 28178          | 28234          | 28291          | 28347          | 28403          | 28460          |
| 520          | 28516                   | 28572          | 28629          | 28685          | 28741          | 28798          | 28854          | 28911          | 28967          | 29024          |
| 530          | 29080                   | 29137          | 29194          | 29250          | 29307          | 29363          | 29420          | 29477          | 29534          | 29590          |
| 540          | 29647                   | 29704          | 29761          | 29818          | 29874          | 29931          | 29988          | 30045          | 30102          | 30159          |
| 550          | 30216                   | 30273          | 30330          | 30387          | 30444          | 30502          | 30559          | 30616          | 30673          | 30730          |
| 560<br>570   | 30788                   | 30845<br>31419 | 30902<br>31477 | 30960          | 31017<br>31592 | 31074          | 31132          | 31189<br>31766 | 31247          | 31304          |
| 580          | 31362<br>31939          | 31997          | 32055          | 31535<br>32113 | 32171          | 31650<br>32229 | 31708<br>32287 | 32345          | 31823          | 31881<br>32461 |
| 590          | 32519                   | 32577          | 32636          | 32694          | 32752          | 32810          | 32869          | 32927          | 32403<br>32985 | 33044          |
| 600          | 33102                   | 33161          | 33219          | 33278          | 33337          | 33395          | 33454          | 33513          | 33571          | 33630          |
| 610          | 33689                   | 33748          | 33807          | 33866          | 33925          | 33984          | 34043          | 34102          | 34161          | 34220          |
| 620          | 34279                   | 34338          | 34397          | 34457          | 34516          | 34575          | 34635          | 34694          | 34754          | 34813          |
| 630          | 34873                   | 34932          | 34992          | 35051          | 35111          | 35171          | 35230          | 35290          | 355350         | 35410          |
| 640          | 35470                   | 35530          | 35590          | 35650          | 35710          | 35770          | 35830          | 35890          | 35950          | 36010          |
| 650          | 36071                   | 36131          | 36191          | 36252          | 36312          | 36373          | 36433          | 36494          | 36554          | 36615          |
| 660          | 36675                   | 36736          | 36797          | 36858          | 36918          | 36979          | 37040          | 37101          | 37162          | 37223          |
| 670          | 37284                   | 37345          | 37406          | 37467          | 37528          | 37590          | 37651          | 37712          | 37773          | 37835          |
| 680          | 37896                   | 37958          | 38019          | 38081          | 38142          | 38204          | 38265          | 38327          | 38389          | 38450          |
| 690          | 38512                   | 38574          | 38636          | 38698          | 38760          | 38822          | 38884          | 38946          | 39008          | 39070          |
| 700          | 39132                   | 39194          | 39256          | 39318          | 39381          | 39443          | 39505          | 39568          | 39630          | 39693          |
| 710          | 39755                   | 39818          | 39880          | 39943          | 40005          | 40068          | 40131          | 40193          | 40256          | 40319          |
| 720          | 40382                   | 40445          | 40508          | 40570          | 40633          | 40696          | 40759          | 40822          | 40886          | 40949          |
| 730          | 41012                   | 41075          | 41138          | 41201          | 41265          | 41328          | 41391          | 41455          | 41518          | 41581          |
| 740          | 41645                   | 41708          | 41772          | 41835          | 41899          | 41962          | 42026          | 42090          | 42153          | 42217          |
| 750          | 42281                   | 42344          | 42408          | 42472          | 42536          | 42599          | 42663          | 42727          | 42791          | 42855          |
| 760          | 42919                   | 42983          | 43047          | 43111          | 43175          | 43239          | 43303          | 43367          | 43431          | 43495          |
| 770          | 43559                   | 43624          | 43688          | 43752          | 43817          | 43881          | 43945          | 44010          | 44074          | 44139          |
| 780          | 44203                   | 44267          | 44332          | 44396          | 44461          | 44525          | 44590          | 44655          | 44719          | 44784          |
| 790          | 44848                   | 44913          | 44977          | 45042          | 45107          | 45171          | 45236          | 45301          | 45365          | 45430          |
| 800          | 45494                   | 45559          | 45624          | 45688          | 45753          | 45818          | 45882          | 45947          | 46011          | 46076          |
| 810<br>820   | 46141<br>46786          | 46205<br>46851 | 46270<br>46915 | 46334<br>46980 | 46399<br>47044 | 46464<br>47109 | 46528<br>47173 | 46593<br>47238 | 46657<br>47302 | 46722<br>47367 |
| 830          | 47431                   | 47495          | 47560          | 47624          | 47688          | 47753          | 47173          | 47881          | 47946          | 48010          |
| 840          | 48074                   | 48138          | 48202          | 48267          | 48331          | 48395          | 48459          | 48523          | 48587          | 48651          |
| 850          | 48715                   | 48779          | 48843          | 48907          | 48971          | 49034          | 49098          | 49162          | 49226          | 49290          |
| 860          | 49353                   | 49417          | 49481          | 49544          | 49608          | 49672          | 49735          | 49799          | 49862          | 49926          |
| 870          | 49989                   | 50052          | 50116          | 50179          | 50243          | 50306          | 50369          | 50432          | 50495          | 50559          |
| 880          | 50622                   | 50685          | 50748          | 50811          | 50874          | 50937          | 51000          | 51063          | 51126          | 51188          |
| 890          | 51251                   | 51314          | 51377          | 51439          | 51502          | 51565          | 51627          | 51690          | 51752          | 51815          |
| 900          | 51877                   | 51940          | 52002          | 52064          | 52127          | 52189          | 52251          | 52314          | 52376          | 52438          |
| 910          | 52500                   | 52562          | 52624          | 52686          | 52748          | 52810          | 52872          | 52934          | 52996          | 53057          |
| 920          | 53119                   | 53181          | 53243          | 53304          | 53366          | 53427          | 53489          | 53550          | 53612          | 53673          |
| 930          | 53735                   | 53796          | 53857          | 53919          | 53980          | 54041          | 54102          | 54164          | 54225          | 54286          |
| 940          | 54347                   | 54408          | 54469          | 54530          | 54591          | 54652          | 54713          | 54773          | 54834          | 54895          |
| 950          | 54956                   | 55016          | 55077          | 55138          | 55198          | 55259          | 55319          | 55380          | 55440          | 55501          |
| 960          | 55561                   | 55622          | 55682          | 55742          | 55803          | 55863          | 55923          | 55983          | 56043          | 56104          |
| 970          | 56164                   | 56224          | 56284          | 56344          | 56404          | 56464          | 56524          | 56584          | 65643          | 56703          |
| 980          | 56763                   | 56823          | 56883          | 56942          | 57002          | 57062          | 57121          | 57181          | 57240          | 57300          |
| 990          | 57360                   | 57419          | 57479          | 57538          | 57597          | 57657          | 57716          | 57776          | 57835          | 57894          |
| 1000         | 57953                   | 58013          | 58072          | 58131          | 58190          | 58249          | 58309          | 58368          | 58427          | 58486          |
| 1010<br>1020 | 58545<br>50134          | 58604          | 58663          | 58722<br>50310 | 58781          | 58840          | 58899<br>50487 | 58957<br>50545 | 59016<br>50604 | 59075          |
| 1020         | 59134<br>59721          | 59193<br>59780 | 59252<br>59838 | 59310<br>59897 | 59369<br>59956 | 59428<br>60014 | 59487<br>60073 | 59545<br>60131 | 59604<br>60190 | 59663<br>60248 |
| 1030         | 60307                   | 60365          | 60423          | 60482          | 60540          | 60599          | 60657          | 60715          | 60774          | 60832          |
| 1050         | 60890                   | 60949          | 61007          | 61065          | 61123          | 61182          | 61240          | 61298          | 61356          | 61415          |
| 1060         | 61473                   | 61531          | 61589          | 61647          | 61705          | 61763          | 61822          | 61880          | 61938          | 61996          |
| 1070         | 62054                   | 62112          | 62170          | 62228          | 62286          | 62344          | 62402          | 62460          | 62518          | 62576          |
| 1080         | 62634                   | 62692          | 62750          | 62808          | 62866          | 62924          | 62982          | 63040          | 63098          | 63156          |
| 1090         | 63214                   | 63271          | 63329          | 63387          | 63445          | 63503          | 63561          | 63619          | 63677          | 63734          |
| 1100         | 63792                   | 63850          | 63908          | 63966          | 64024          | 64081          | 64139          | 64197          | 64255          | 64313          |
| 1110         | 64370                   | 64428          | 64486          | 64544          | 64602          | 64659          | 64717          | 64775          | 64833          | 64890          |
| 1120         | 64948                   | 65006          | 65064          | 65121          | 65179          | 65237          | 65295          | 65352          | 65410          | 65468          |
| 1130         | 65525                   | 65583          | 65641          | 65699          | 65756          | 65814          | 65872          | 65929          | 65987          | 66045          |
| 1140         | 66102                   | 66160          | 66218          | 66275          | 66333          | 66391          | 66448          | 66506          | 66564          | 66621          |
| 1150         | 66679                   | 66737          | 66794          | 66852          | 66910          | 66967          | 67025          | 67082          | 67140          | 67198          |
| 1160         | 67255                   | 67313          | 67370          | 67428          | 67486          | 67543          | 67601          | 67658          | 67716          | 67773          |
|              |                         | 07000          | 07040          | 68003          | 68061          | 68119          | 68176          | 68234          | 68291          | 68348          |
| 1170         | 67831                   | 67888          | 67946          |                |                |                |                |                |                |                |
|              | 67831<br>68406<br>68980 | 68463<br>69037 | 68521<br>69095 | 68578<br>69152 | 68636<br>69209 | 68693<br>69267 | 68751<br>69324 | 68808<br>69381 | 68865<br>60439 | 68923<br>69496 |

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# Table d'équivalences normalisées °C/µV des thermocouples type S, selon IEC 584

Valeurs en microvolt

|     |      |      |      |      |      |      |      |      | vaicai | s en microvoit |
|-----|------|------|------|------|------|------|------|------|--------|----------------|
| °C  | 0    | -1   | -2   | -3   | -4   | -5   | -6   | -7   | -8     | -9             |
| -50 | -236 |      |      |      |      |      |      |      |        |                |
| -40 | -194 | -199 | -203 | -207 | -211 | -215 | -220 | -224 | -228   | -232           |
| -30 | -150 | -155 | -159 | -164 | -168 | -173 | -177 | -181 | -186   | -190           |
| -20 | -103 | -108 | -112 | -117 | -122 | -127 | -132 | -136 | -141   | -145           |
| -10 | -53  | -58  | -63  | -68  | -73  | -78  | -83  | -88  | -93    | -98            |
| 0   | 0    | -5   | -11  | -16  | -21  | -27  | -32  | -37  | -42    | -48            |
| °C  | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8      | 9              |
|     |      |      |      |      |      |      |      |      |        |                |
| 0   | 0    | 5    | 11   | 16   | 22   | 27   | 33   | 38   | 44     | 50             |
| 10  | 55   | 61   | 67   | 72   | 78   | 84   | 90   | 95   | 101    | 107            |
| 20  | 113  | 119  | 125  | 131  | 137  | 142  | 148  | 154  | 161    | 167            |
| 30  | 173  | 179  | 185  | 191  | 197  | 203  | 210  | 216  | 222    | 228            |
| 40  | 235  | 241  | 247  | 254  | 260  | 266  | 273  | 279  | 286    | 292            |
| 50  | 299  | 305  | 312  | 318  | 325  | 331  | 338  | 345  | 351    | 358            |
| 60  | 365  | 371  | 378  | 385  | 391  | 398  | 405  | 412  | 419    | 425            |
| 70  | 432  | 439  | 446  | 453  | 460  | 467  | 474  | 481  | 488    | 495            |
| 80  | 502  | 509  | 516  | 523  | 530  | 537  | 544  | 551  | 558    | 566            |
| 90  | 573  | 580  | 587  | 594  | 602  | 609  | 616  | 623  | 631    | 638            |
| 100 | 645  | 653  | 660  | 667  | 675  | 682  | 690  | 697  | 704    | 712            |
| 110 | 719  | 727  | 734  | 742  | 749  | 757  | 764  | 772  | 780    | 787            |
| 120 | 795  | 802  | 810  | 818  | 825  | 833  | 841  | 848  | 856    | 864            |
| 130 | 872  | 879  | 887  | 895  | 903  | 910  | 918  | 926  | 934    | 942            |
| 140 | 950  | 957  | 965  | 973  | 981  | 989  | 997  | 1005 | 1013   | 1021           |
| 150 | 1029 | 1037 | 1045 | 1053 | 1061 | 1069 | 1077 | 1005 | 1013   | 1101           |
| 160 | 1109 | 1117 | 1125 | 1133 | 1141 | 1149 | 1158 | 1166 | 1174   | 1182           |
| 170 | 1190 | 1198 | 1207 | 1215 | 1223 | 1231 | 1240 | 1248 | 1256   | 1264           |
|     |      | 1281 |      | 1215 |      |      | 1322 | 1331 |        | 1347           |
| 180 | 1273 |      | 1289 |      | 1306 | 1314 |      |      | 1339   |                |
| 190 | 1356 | 1364 | 1373 | 1381 | 1389 | 1398 | 1406 | 1415 | 1423   | 1432           |
| 200 | 1440 | 1448 | 1457 | 1465 | 1474 | 1482 | 1491 | 1499 | 1508   | 1516           |
| 210 | 1525 | 1534 | 1542 | 1551 | 1559 | 1568 | 1576 | 1585 | 1594   | 1602           |
| 220 | 1611 | 1620 | 1628 | 1637 | 1645 | 1654 | 1663 | 1671 | 1680   | 1689           |
| 230 | 1698 | 1706 | 1715 | 1724 | 1732 | 1741 | 1750 | 1759 | 1767   | 1776           |
| 240 | 1785 | 1794 | 1802 | 1811 | 1820 | 1829 | 1838 | 1846 | 1855   | 1864           |
| 250 | 1873 | 1882 | 1891 | 1899 | 1908 | 1917 | 1926 | 1935 | 1944   | 1953           |
| 260 | 1962 | 1971 | 1979 | 1988 | 1997 | 2006 | 2015 | 2024 | 2033   | 2042           |
| 270 | 2051 | 2060 | 2069 | 2078 | 2087 | 2096 | 2105 | 2114 | 2123   | 2132           |
| 280 | 2141 | 2150 | 2159 | 2168 | 2177 | 2186 | 2195 | 2204 | 2213   | 2222           |
| 290 | 2232 | 2241 | 2250 | 2259 | 2268 | 2277 | 2286 | 2295 | 2304   | 2314           |
| 300 | 2323 | 2332 | 2341 | 2350 | 2359 | 2368 | 2378 | 2387 | 2396   | 2405           |
| 310 | 2414 | 2424 | 2433 | 2442 | 2451 | 2460 | 2470 | 2479 | 2488   | 2497           |
| 320 | 2506 | 2516 | 2525 | 2534 | 2543 | 2553 | 2562 | 2571 | 2581   | 2590           |
| 330 | 2599 | 2608 | 2618 | 2627 | 2636 | 2646 | 2655 | 2664 | 2674   | 2683           |
| 340 | 2692 | 2702 | 2711 | 2720 | 2730 | 2739 | 2748 | 2758 | 2767   | 2776           |
| 350 | 2786 | 2795 | 2805 | 2814 | 2823 | 2833 | 2842 | 2852 | 2861   | 2870           |
| 360 | 2880 | 2889 | 2899 | 2908 | 2917 | 2927 | 2936 | 2946 | 2955   | 2965           |
| 370 | 2974 | 2984 | 2993 | 3003 | 3012 | 3022 | 3031 | 3041 | 3050   | 3059           |
| 380 | 3069 | 3078 | 3088 | 3097 | 3107 | 3117 | 3126 | 3136 | 3145   | 3155           |
| 390 | 3164 | 3174 | 3183 | 3193 | 3202 | 3212 | 3221 | 3231 | 3241   | 3250           |
| 400 | 3260 | 3269 | 3279 | 3288 | 3298 | 3308 | 3317 | 3327 | 3336   | 3346           |
| 410 | 3356 | 3365 | 3375 | 3384 | 3394 | 3404 | 3413 | 3423 | 3433   | 3442           |
| 420 | 3452 | 3462 | 3471 | 3481 | 3491 | 3500 | 3510 | 3520 | 3529   | 3539           |
| 430 | 3549 | 3558 | 3568 | 3578 | 3587 | 3597 | 3607 | 3616 | 3626   | 3636           |
| 440 | 3645 | 3655 | 3665 | 3675 | 3684 | 3694 | 3704 | 3714 | 3723   | 3733           |
| 450 | 3743 | 3752 | 3762 | 3772 | 3782 | 3791 | 3801 | 3811 | 3821   | 3831           |
| 460 | 3840 | 3850 | 3860 | 3870 | 3879 | 3889 | 3899 | 3909 | 3919   | 3928           |
| 470 |      |      |      |      |      |      |      | 4007 |        |                |
|     | 3938 | 3948 | 3958 | 3968 | 3977 | 3987 | 3997 |      | 4017   | 4027           |
| 480 | 4036 | 4046 | 4056 | 4066 | 4076 | 4086 | 4095 | 4105 | 4115   | 4125           |
| 490 | 4135 | 4145 | 4155 | 4164 | 4174 | 4184 | 4194 | 4204 | 4214   | 4224           |
| 500 | 4234 | 4243 | 4253 | 4263 | 4273 | 4283 | 4293 | 4303 | 4313   | 4323           |
| 510 | 4333 | 4343 | 4352 | 4362 | 4372 | 4382 | 4392 | 4402 | 4412   | 4422           |
| 520 | 4432 | 4442 | 4452 | 4462 | 4472 | 4482 | 4492 | 4502 | 4512   | 4522           |
| 530 | 4532 | 4542 | 4552 | 4562 | 4572 | 4582 | 4592 | 4602 | 4612   | 4622           |
| 540 | 4632 | 4642 | 4652 | 4662 | 4672 | 4682 | 4692 | 4702 | 4712   | 4722           |

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# Table d'équivalences normalisées °C/µV des thermocouples type S, selon IEC 584

Valeurs en microvolt

|      |       |       |       |       |       |       |       |       | v aleui. | s en microvoit |
|------|-------|-------|-------|-------|-------|-------|-------|-------|----------|----------------|
| °C   | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8        | 9              |
| 550  | 4732  | 4742  | 4752  | 4762  | 4772  | 4782  | 4792  | 4802  | 4812     | 4822           |
| 560  | 4832  | 4842  | 4852  | 4862  | 4873  | 4883  | 4893  | 4903  | 4913     | 4923           |
| 570  | 4933  | 4943  | 4953  | 4963  | 4973  | 4984  | 4994  | 5004  | 5014     | 5024           |
| 580  | 5034  | 5044  | 5054  | 5065  | 5075  | 5085  | 5095  | 5105  | 5115     | 5125           |
| 590  | 5136  | 5146  | 5156  | 5166  | 5176  | 5186  | 5197  | 5207  | 5217     | 5227           |
| 600  | 5237  | 5247  | 5258  | 5268  | 5278  | 5288  | 5298  | 5309  | 5319     | 5329           |
| 610  | 5339  | 5350  | 5360  | 5370  | 5380  | 5391  | 5401  | 5411  | 5421     | 5431           |
| 620  | 5442  | 5452  | 5462  | 5473  | 5483  | 5493  | 5503  | 5514  | 5524     | 5534           |
| 630  | 5544  | 5555  | 5565  | 5575  | 5586  | 5596  | 5606  | 5617  | 5627     | 5637           |
| 640  | 5648  | 5658  | 5668  | 5679  | 5689  | 5700  | 5710  | 5720  | 5731     | 5741           |
|      |       |       |       |       |       |       |       |       |          |                |
| 650  | 5751  | 5762  | 5772  | 5782  | 5793  | 5803  | 5814  | 5824  | 5834     | 5845           |
| 660  | 5855  | 5866  | 5876  | 5887  | 5897  | 5907  | 5918  | 5928  | 5939     | 5949           |
| 670  | 5960  | 5970  | 5980  | 5991  | 6001  | 6012  | 6022  | 6033  | 6043     | 6054           |
| 680  | 6064  | 6075  | 6085  | 6096  | 6106  | 6117  | 6127  | 6138  | 6148     | 6159           |
| 690  | 6169  | 6180  | 6190  | 6201  | 6211  | 6222  | 6232  | 6243  | 6253     | 6264           |
| 700  | 6274  | 6285  | 6295  | 6306  | 6316  | 6327  | 6338  | 6348  | 6359     | 6369           |
| 710  | 6380  | 6390  | 6401  | 6412  | 6422  | 6433  | 6443  | 6454  | 6465     | 6475           |
| 720  | 6486  | 6496  | 6507  | 6518  | 6528  | 6539  | 6549  | 6560  | 6571     | 6581           |
| 730  | 6592  | 6603  | 6613  | 6624  | 6635  | 6645  | 6656  | 6667  | 6677     | 6688           |
| 740  | 6699  | 6709  | 6720  | 6731  | 6741  | 6752  | 6763  | 6773  | 6784     | 6795           |
| 750  | 6805  | 6816  | 6827  | 6838  | 6848  | 6859  | 6870  | 6880  | 6891     | 6902           |
| 760  | 6913  | 6923  | 6934  | 6945  | 6956  | 6966  | 6977  | 6988  | 6999     | 7009           |
| 770  | 7020  | 7031  | 7042  | 7053  | 7063  | 7074  | 7085  | 7096  | 7107     | 7117           |
| 780  | 7128  | 7139  | 7150  | 7161  | 7171  | 7182  | 7193  | 7204  | 7215     | 7225           |
| 790  | 7236  | 7247  | 7258  | 7269  | 7280  | 7291  | 7301  | 7312  | 7323     | 7334           |
| 800  | 7345  | 7356  | 7367  | 7377  | 7388  | 7399  | 7410  | 7421  | 7432     | 7443           |
| 810  | 7454  | 7465  | 7476  | 7486  | 7497  | 7508  | 7519  | 7530  | 7541     | 7552           |
| 820  | 7563  | 7574  | 7585  | 7596  | 7607  | 7618  | 7629  | 7640  | 7651     |                |
| 830  | 7672  | 7683  | 7694  | 7705  | 7716  | 7010  | 7629  | 7640  | 7760     | 7661<br>7771   |
|      |       |       |       |       |       |       |       |       |          |                |
| 840  | 7782  | 7793  | 7804  | 7815  | 7826  | 7837  | 7848  | 7859  | 7870     | 7881           |
| 850  | 7892  | 7904  | 7915  | 7926  | 7937  | 7948  | 7959  | 7970  | 7981     | 7992           |
| 860  | 8003  | 8014  | 8025  | 8036  | 8047  | 8058  | 8069  | 8081  | 8092     | 8103           |
| 870  | 8114  | 8125  | 8136  | 8147  | 8158  | 8169  | 8180  | 8192  | 8203     | 8214           |
| 880  | 8225  | 8236  | 8247  | 8258  | 8270  | 8281  | 8292  | 8303  | 8314     | 8325           |
| 890  | 8336  | 8348  | 8359  | 8370  | 8381  | 8392  | 8404  | 8415  | 8426     | 8437           |
| 900  | 8448  | 8460  | 8471  | 8482  | 8493  | 8504  | 8516  | 8527  | 8538     | 8549           |
| 910  | 8560  | 8572  | 8583  | 8594  | 8605  | 8617  | 8628  | 8639  | 8650     | 8662           |
| 920  | 8673  | 8684  | 8695  | 8707  | 8718  | 8729  | 8741  | 8752  | 8763     | 8774           |
| 930  | 8786  | 8797  | 8808  | 8820  | 8831  | 8842  | 8854  | 8865  | 8876     | 8888           |
| 940  | 8899  | 8910  | 8922  | 8933  | 8944  | 8956  | 8967  | 8978  | 8990     | 9001           |
| 950  | 9012  | 9024  | 9035  | 9047  | 9058  | 9069  | 9081  | 9092  | 9103     | 9115           |
| 960  | 9126  | 9138  | 9149  | 9160  | 9172  | 9183  | 9195  | 9206  | 9217     | 9229           |
| 970  | 9240  | 9252  | 9263  | 9275  | 9286  | 9298  | 9309  | 9320  | 9332     | 9343           |
| 980  | 9355  | 9366  | 9378  | 9389  | 9401  | 9412  | 9424  | 9435  | 9447     | 9458           |
| 990  | 9470  | 9481  | 9493  | 9504  | 9516  | 9527  | 9539  | 9550  | 9562     | 9573           |
| 1000 | 9585  | 9596  | 9608  | 9619  | 9631  | 9642  | 9654  | 9665  | 9677     | 9689           |
| 1010 | 9700  | 9712  | 9723  | 9735  | 9746  | 9758  | 9770  | 9781  | 9793     | 9804           |
| 1020 | 9816  | 9828  | 9839  | 9851  | 9862  | 9874  | 9886  | 9897  | 9909     | 9920           |
| 1030 | 9932  | 9944  | 9955  | 9967  | 9979  | 9990  | 10002 | 10013 | 10025    | 10037          |
| 1040 | 10048 | 10060 | 10072 | 10083 | 10095 |       | 10002 | 10013 |          |                |
|      |       |       |       |       |       | 10107 |       |       | 10142    | 10154          |
| 1050 | 10165 | 10177 | 10189 | 10200 | 10212 | 10224 | 10235 | 10247 | 10259    | 10271          |
| 1060 | 10282 | 10294 | 10306 | 10318 | 10329 | 10341 | 10353 | 10364 | 10376    | 10388          |
| 1070 | 10400 | 10411 | 10423 | 10435 | 10447 | 10459 | 10470 | 10482 | 10494    | 10506          |
| 1080 | 10517 | 10529 | 10541 | 10553 | 10565 | 10576 | 10588 | 10600 | 10612    | 10624          |
| 1090 | 10635 | 10647 | 10659 | 10671 | 10683 | 10694 | 10706 | 10718 | 10730    | 10742          |

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# Table d'équivalences normalisées °C/µV des thermocouples type S, selon IEC 584

Valeurs en microvolt

|              |       |       |       |       |       |        |       |       | vaieurs | s en microvolt |
|--------------|-------|-------|-------|-------|-------|--------|-------|-------|---------|----------------|
| °C           | 0     | 1     | 2     | 3     | 4     | 5      | 6     | 7     | 8       | 9              |
| 1100         | 10754 | 10765 | 10777 | 10789 | 10801 | 10813  | 10825 | 10836 | 10848   | 10860          |
| 1110         | 10872 | 10884 | 10896 | 10908 | 10919 | 10931  | 10943 | 10955 | 10967   | 10979          |
| 1120         | 10991 | 11003 | 11014 | 11026 | 11038 | 11050  | 11062 | 11074 | 11086   | 11098          |
|              |       |       |       |       |       |        |       |       |         |                |
| 1130         | 11110 | 11121 | 11133 | 11145 | 11157 | 11169  | 11181 | 11193 | 11205   | 11217          |
| 1140         | 11229 | 11241 | 11252 | 11264 | 11276 | 11288  | 11300 | 11312 | 11324   | 11336          |
| 1150         | 11348 | 11360 | 11372 | 11384 | 11396 | 11408  | 11420 | 11432 | 11443   | 11455          |
| 1160         | 11467 | 11479 | 11491 | 11503 | 11515 | 11527  | 11539 | 11551 | 11563   | 11575          |
| 1170         | 11587 | 11599 | 11611 | 11623 | 11635 | 11647  | 11659 | 11671 | 11683   | 11695          |
| 1180         | 11707 | 11719 | 11731 | 11743 | 11755 | 11767  | 11779 | 11791 | 11803   | 11815          |
| 1190         | 11827 | 11839 | 11851 | 11863 | 11875 | 11887  | 11899 | 11911 | 11923   | 11935          |
| 1200         | 11947 | 11959 | 11971 | 11983 | 11995 | 12007  | 12019 | 12031 | 12043   | 12055          |
| 1210         | 12067 | 12079 | 12091 | 12103 | 12116 | 12128  | 12140 | 12152 | 12164   | 12176          |
| 1220         | 12188 | 12200 | 12212 | 12224 | 12236 | 122248 | 12260 | 12272 | 12284   | 12296          |
| 1230         | 12308 | 12320 | 12332 | 12345 | 12357 | 12369  | 12381 | 12393 | 12405   | 12417          |
| 1240         | 12429 | 12441 | 12453 | 12465 | 12477 | 12489  | 12501 | 12514 | 12526   | 12538          |
|              |       |       |       |       |       |        |       | 12634 |         |                |
| 1250         | 12550 | 12562 | 12574 | 12586 | 12598 | 12610  | 12622 |       | 12647   | 12659          |
| 1260         | 12671 | 12683 | 12695 | 12707 | 12719 | 12731  | 12743 | 12755 | 12767   | 12780          |
| 1270         | 12792 | 12804 | 12816 | 12828 | 12840 | 12852  | 12864 | 12876 | 12888   | 12901          |
| 1280         | 12913 | 12925 | 12937 | 12949 | 12961 | 12973  | 12985 | 12997 | 13010   | 13022          |
| 1290         | 13034 | 13046 | 13058 | 13070 | 13082 | 13094  | 13107 | 13119 | 13131   | 13143          |
| 1300         | 13155 | 13167 | 13179 | 13191 | 13203 | 13216  | 13228 | 13240 | 13252   | 13264          |
| 1310         | 13276 | 13288 | 13300 | 13313 | 13325 | 13337  | 13349 | 13361 | 13373   | 13385          |
| 1320         | 13397 | 13410 | 13422 | 13434 | 13446 | 13458  | 13470 | 13482 | 13495   | 13507          |
| 1330         | 13519 | 13531 | 13543 | 13555 | 13567 | 13579  | 13592 | 13604 | 13616   | 13628          |
| 1340         | 13640 | 13652 | 13664 | 13677 | 13689 | 13701  | 13713 | 13725 | 13737   | 13749          |
| 1350         | 13761 | 13774 | 13786 | 13798 | 13810 | 13822  | 13834 | 13846 | 13859   | 13871          |
| 1360         | 13883 | 13895 | 13907 | 13919 | 13931 | 13943  | 13956 | 13968 | 13980   | 13992          |
| 1370         | 14004 | 14016 | 14028 | 14040 | 14053 | 14065  | 14077 | 14089 | 14101   | 14113          |
| 1380         | 14125 | 14138 | 14150 | 14162 | 14174 | 14186  | 14198 | 14210 | 14222   | 14235          |
| 1390         | 14247 | 14259 | 14271 | 14283 | 14295 | 14307  | 14319 | 14332 | 14344   | 14356          |
| 1400         | 14368 | 14380 | 14392 | 14404 | 14416 | 14429  | 14441 | 14453 | 14465   | 14477          |
|              |       |       |       |       |       |        |       |       |         |                |
| 1410         | 14489 | 14501 | 14513 | 14526 | 14538 | 14550  | 14562 | 14574 | 14586   | 14598          |
| 1420         | 14610 | 14622 | 14635 | 14647 | 14659 | 14671  | 14683 | 14695 | 14707   | 14719          |
| 1430         | 14731 | 14744 | 14756 | 14768 | 14780 | 14792  | 14804 | 14816 | 14828   | 14840          |
| 1440         | 14852 | 14865 | 14877 | 14889 | 14901 | 14913  | 14925 | 14937 | 14949   | 14961          |
| 1450         | 14973 | 14985 | 14998 | 15010 | 15022 | 15034  | 15046 | 15058 | 15070   | 15082          |
| 1460         | 15094 | 15106 | 15118 | 15130 | 15143 | 15155  | 15167 | 15179 | 15191   | 15203          |
| 1470         | 15215 | 15227 | 15239 | 15251 | 15263 | 15275  | 15287 | 15299 | 15311   | 15324          |
| 1480         | 15336 | 15348 | 15360 | 15372 | 15384 | 15396  | 15408 | 15420 | 15432   | 15444          |
| 1490         | 15456 | 15468 | 15480 | 15492 | 15504 | 15516  | 15528 | 15540 | 15552   | 15564          |
| 1500         | 15576 | 15589 | 15601 | 15613 | 15625 | 15637  | 15649 | 15661 | 15673   | 15685          |
| 1510         | 15697 | 15709 | 15721 | 15733 | 15745 | 15757  | 15769 | 15781 | 15793   | 15805          |
| 1520         | 15817 | 15829 | 15841 | 15853 | 15865 | 15877  | 15889 | 15901 | 15913   | 15925          |
| 1530         | 15937 | 15949 | 15961 | 15973 | 15985 | 15997  | 16009 | 16021 | 16033   | 16045          |
| 1540         | 16057 | 16069 | 16080 | 16092 | 16104 | 16116  | 16128 | 16140 | 16152   | 16164          |
| 1550         | 16176 | 16188 | 16200 | 16212 | 16224 | 16236  | 16248 | 16260 | 16272   | 16284          |
| 1560         | 16296 | 16308 | 16319 | 16331 | 16343 | 16355  | 16367 | 16379 | 16391   | 16403          |
| 1570         | 16415 | 16427 | 16439 | 16451 | 16462 | 16474  | 16486 | 16498 | 16510   | 16522          |
|              |       |       |       |       |       |        |       |       |         |                |
| 1580<br>1590 | 16534 | 16546 | 16558 | 16569 | 16581 | 16593  | 16605 | 16617 | 16629   | 16641          |
|              | 16653 | 16664 | 16676 | 16688 | 16700 | 16712  | 16724 | 16736 | 16747   | 16759          |
| 1600         | 16771 | 16783 | 16795 | 16807 | 16819 | 16830  | 16842 | 16854 | 16866   | 16878          |
| 1610         | 16890 | 16901 | 16913 | 16925 | 16937 | 16949  | 16960 | 16972 | 16984   | 16996          |
| 1620         | 17008 | 17019 | 17031 | 17043 | 17055 | 17067  | 17078 | 17090 | 17102   | 17114          |
| 1630         | 17125 | 17137 | 17149 | 17161 | 17173 | 17134  | 17196 | 17208 | 17220   | 17231          |
| 1640         | 17243 | 17255 | 17267 | 17278 | 17290 | 17302  | 17313 | 17325 | 17337   | 17349          |
| 1650         | 17360 | 17372 | 17384 | 17396 | 17407 | 17419  | 17431 | 17442 | 17454   | 17466          |
| 1660         | 17477 | 17489 | 17501 | 17512 | 17524 | 17536  | 17548 | 17559 | 17571   | 17583          |
| 1670         | 17594 | 17606 | 17617 | 17629 | 17641 | 17652  | 17664 | 17676 | 17687   | 17699          |
| 1680         | 17711 | 17722 | 17734 | 17745 | 17757 | 17769  | 17780 | 17792 | 17803   | 17815          |
| 1690         | 17826 | 17838 | 17850 | 17861 | 17873 | 17884  | 17896 | 17907 | 17919   | 17930          |
| 1700         | 17942 | 17953 | 17965 | 17976 | 17988 | 17999  | 18010 | 18022 | 18033   | 18045          |
| 1710         | 18056 | 18068 | 18079 | 18090 | 18102 | 18113  | 18124 | 18136 | 18147   | 18158          |
| 1720         | 18170 | 18181 | 18192 | 18204 | 18215 | 18226  | 18237 | 18249 | 18260   | 18271          |
| 1730         | 18282 | 18293 | 18305 | 18316 | 18327 | 18338  | 18349 | 18360 | 18372   | 18383          |
| 1740         | 18394 | 18405 | 18416 | 18427 | 18438 | 18449  | 18460 | 18471 | 18482   | 18493          |
| 1750         | 18504 | 18515 | 18526 | 18536 | 18547 | 18558  | 18569 | 18580 | 18591   | 18602          |
| 1760         | 18612 | 18623 | 18634 | 18645 | 18655 | 18666  | 18677 | 18687 | 10091   | 10002          |
| 1700         | 10012 | 10023 | 10034 | 10040 | 10000 | 10000  | 10077 | 10007 |         | I              |

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# Table d'équivalences normalisées °C/µV des thermocouples type B, selon IEC 584

Valeurs en microvolt

|     |      |      |      |      |      |      |      |      | v aicui. | s en microvoit |
|-----|------|------|------|------|------|------|------|------|----------|----------------|
| °C  | 0    | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8        | 9              |
| 50  | 2    | 3    | 3    | 3    | 4    | 4    | 4    | 5    | 5        | 6              |
|     |      |      |      |      |      |      |      |      |          |                |
| 60  | 6    | 7    | 7    | 8    | 8    | 9    | 9    | 10   | 10       | 11             |
| 70  | 11   | 12   | 12   | 13   | 14   | 14   | 15   | 15   | 16       | 17             |
| 80  | 17   | 18   | 19   | 20   | 20   | 21   | 22   | 22   | 23       | 24             |
| 90  | 25   | 26   | 26   | 27   | 28   | 29   | 30   | 31   | 31       | 32             |
| 100 | 33   | 34   | 35   | 36   | 37   | 38   | 39   | 40   | 41       | 42             |
| 110 | 43   | 44   | 45   | 46   | 47   | 48   | 49   | 50   | 51       | 52             |
| 120 | 53   | 55   | 56   | 57   | 58   | 59   | 60   | 62   | 63       | 64             |
| 130 | 65   | 66   | 68   | 69   | 70   | 71   | 73   | 74   | 75       | 77             |
|     |      |      |      |      |      |      |      |      |          |                |
| 140 | 78   | 79   | 81   | 82   | 83   | 85   | 86   | 88   | 89       | 91             |
| 150 | 92   | 93   | 95   | 96   | 98   | 99   | 101  | 102  | 104      | 106            |
| 160 | 107  | 109  | 110  | 112  | 113  | 115  | 117  | 118  | 120      | 122            |
| 170 | 123  | 125  | 127  | 128  | 130  | 132  | 133  | 135  | 137      | 139            |
| 180 | 140  | 142  | 144  | 146  | 148  | 149  | 151  | 153  | 155      | 157            |
| 190 | 159  | 161  | 163  | 164  | 166  | 168  | 170  | 172  | 174      | 176            |
| 200 | 178  | 180  | 182  | 184  | 186  | 188  | 190  | 192  | 194      | 197            |
| 210 | 199  | 201  | 203  | 205  | 207  | 209  | 211  | 214  | 216      | 218            |
| 220 | 220  | 222  | 225  | 227  | 229  | 231  | 234  | 236  | 238      | 240            |
|     |      |      |      |      |      |      |      |      |          |                |
| 230 | 243  | 245  | 247  | 250  | 252  | 254  | 257  | 259  | 262      | 264            |
| 240 | 266  | 269  | 271  | 274  | 276  | 279  | 281  | 284  | 286      | 289            |
| 250 | 291  | 294  | 296  | 299  | 301  | 304  | 307  | 309  | 312      | 314            |
| 260 | 317  | 320  | 322  | 325  | 328  | 330  | 333  | 336  | 338      | 341            |
| 270 | 344  | 347  | 349  | 352  | 355  | 358  | 360  | 363  | 366      | 369            |
| 280 | 372  | 375  | 377  | 380  | 383  | 386  | 389  | 392  | 395      | 398            |
| 290 | 401  | 404  | 406  | 409  | 412  | 415  | 418  | 421  | 424      | 427            |
| 300 | 431  | 434  | 437  | 440  | 443  | 446  | 449  | 452  | 455      | 458            |
|     |      |      |      |      |      |      |      |      |          |                |
| 310 | 462  | 465  | 468  | 471  | 474  | 477  | 481  | 484  | 487      | 490            |
| 320 | 494  | 497  | 500  | 503  | 507  | 510  | 513  | 517  | 520      | 523            |
| 330 | 527  | 530  | 533  | 537  | 540  | 544  | 547  | 550  | 554      | 557            |
| 340 | 561  | 564  | 568  | 571  | 575  | 578  | 582  | 585  | 589      | 592            |
| 350 | 596  | 599  | 603  | 606  | 610  | 614  | 617  | 621  | 625      | 628            |
| 360 | 632  | 636  | 639  | 643  | 647  | 650  | 654  | 658  | 661      | 665            |
| 370 | 669  | 673  | 677  | 680  | 684  | 688  | 692  | 696  | 699      | 703            |
| 380 | 707  | 711  | 715  | 719  | 723  | 727  | 730  | 734  | 738      | 742            |
| 390 | 746  | 750  | 754  | 758  | 762  | 766  | 770  | 774  | 778      | 782            |
|     |      | 790  | 794  | 799  | 803  | 807  |      | 815  |          |                |
| 400 | 786  |      |      |      |      |      | 511  |      | 819      | 823            |
| 410 | 827  | 832  | 836  | 840  | 844  | 848  | 853  | 857  | 861      | 865            |
| 420 | 870  | 874  | 878  | 882  | 887  | 891  | 895  | 900  | 904      | 908            |
| 430 | 913  | 917  | 921  | 926  | 930  | 935  | 939  | 943  | 948      | 952            |
| 440 | 957  | 961  | 966  | 970  | 975  | 979  | 984  | 988  | 993      | 997            |
| 450 | 1002 | 1006 | 1011 | 1015 | 1020 | 1025 | 1029 | 1034 | 1039     | 1043           |
| 460 | 1048 | 1052 | 1057 | 1062 | 1066 | 1071 | 1076 | 1081 | 1085     | 1090           |
| 470 | 1095 | 1100 | 1104 | 1109 | 1114 | 1119 | 1123 | 1128 | 1133     | 1138           |
| 480 | 1143 | 1148 | 1152 | 1157 | 1162 | 1167 | 1172 | 1177 | 1182     | 1187           |
| 490 |      | 1146 |      |      |      |      |      | 1226 | 1231     |                |
|     | 1192 |      | 1202 | 1206 | 1211 | 1216 | 1221 |      |          | 1236           |
| 500 | 1241 | 1246 | 1252 | 1257 | 1262 | 1267 | 1272 | 1277 | 1282     | 1287           |
| 510 | 1292 | 1297 | 1303 | 1308 | 1313 | 1318 | 1323 | 1328 | 1334     | 1339           |
| 520 | 1344 | 1349 | 1354 | 1360 | 1365 | 1370 | 1375 | 1381 | 1386     | 1391           |
| 530 | 1397 | 1402 | 1407 | 1413 | 1418 | 1423 | 1429 | 1434 | 1439     | 1445           |
| 540 | 1450 | 1456 | 1461 | 1467 | 1472 | 1477 | 1483 | 1488 | 1494     | 1499           |
| 550 | 1505 | 1510 | 1516 | 1521 | 1527 | 1532 | 1538 | 1544 | 1549     | 1555           |
| 560 | 1560 | 1566 | 1571 | 1577 | 1583 | 1588 | 1594 | 1600 | 1605     | 1611           |
| 570 | 1617 | 1622 | 1628 | 1634 | 1639 | 1645 | 1651 | 1657 | 1662     | 1668           |
|     |      |      |      |      |      |      |      |      |          |                |
| 580 | 1674 | 1680 | 1685 | 1691 | 1697 | 1703 | 1709 | 1715 | 1720     | 1726           |
| 590 | 1732 | 1738 | 1744 | 1750 | 1756 | 1762 | 1767 | 1773 | 1779     | 1785           |
| 600 | 1791 | 1797 | 1803 | 1809 | 1815 | 1821 | 1827 | 1833 | 1839     | 1845           |
| 610 | 1851 | 1857 | 1863 | 1869 | 1875 | 1882 | 1888 | 1894 | 1900     | 1906           |
| 620 | 1912 | 1918 | 1924 | 1931 | 1937 | 1943 | 1949 | 1955 | 1961     | 1968           |
| 630 | 1974 | 1980 | 1986 | 1993 | 1999 | 2005 | 2011 | 2018 | 2024     | 2030           |
| 640 | 2036 | 2043 | 2049 | 2055 | 2062 | 2068 | 2074 | 2081 | 2087     | 2094           |
| 650 | 2100 | 2106 | 2113 | 2119 | 2126 | 2132 | 2139 | 2145 | 2151     | 2158           |
| 660 | 2164 | 2171 | 2177 | 2184 | 2190 | 2197 | 2203 | 2210 | 2216     | 2223           |
|     |      |      |      |      |      |      |      |      |          |                |
| 670 | 2230 | 2236 | 2243 | 2249 | 2256 | 2263 | 2269 | 2276 | 2282     | 2289           |
| 680 | 2296 | 2302 | 2309 | 2316 | 2322 | 2329 | 2336 | 2343 | 2349     | 2356           |
| 690 | 2363 | 2369 | 2376 | 2383 | 2390 | 2396 | 2403 | 2410 | 2417     | 2424           |

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# Table d'équivalences normalisées °C/µV des thermocouples type B, selon IEC 584

Valeurs en microvolt

|      |      |              |      |      |      |      |      |      | Valeur | s en microvolt |
|------|------|--------------|------|------|------|------|------|------|--------|----------------|
| °C   | 0    | 1            | 2    | 3    | 4    | 5    | 6    | 7    | 8      | 9              |
| 700  | 2430 | 2437         | 2444 | 2451 | 2458 | 2465 | 2472 | 2478 | 2485   | 2492           |
| 710  | 2499 | 2506         | 2513 | 2520 | 2527 | 2534 | 2541 | 2548 | 2555   | 2562           |
| 720  | 2569 | 2576         | 2583 | 2590 | 2597 | 2604 | 2611 | 2618 | 2625   | 2632           |
| 730  | 2639 | 2646         | 2653 | 2660 | 2667 | 2674 | 2682 | 2689 | 2696   | 2703           |
| 740  | 2710 | 2717         | 2724 | 2732 | 2739 | 2746 | 2753 | 2760 | 2768   | 2775           |
| 750  | 2782 | 2789         | 2797 | 2804 | 2811 | 2818 | 2826 | 2833 | 2840   | 2848           |
| 760  | 2855 | 2862         | 2869 | 2877 | 2884 | 2892 | 2899 | 2906 | 2914   | 2921           |
| 770  | 2928 | 2936         | 2943 | 2951 | 2958 | 2966 | 2973 | 2980 | 2988   | 2995           |
| 780  | 3003 | 3010         | 3018 | 3025 | 3033 | 3040 | 3048 | 3055 | 3063   | 3070           |
| 790  | 3078 | 3086         | 3093 | 3101 | 3108 | 3116 | 3124 | 3131 | 3139   | 3146           |
| 800  | 3154 | 3162         | 3169 | 3177 | 3185 | 3192 | 3200 | 3208 | 3215   | 3223           |
| 810  | 3231 | 3239         | 3246 | 3254 | 3262 | 3269 | 3277 | 3285 | 3293   | 3301           |
| 820  | 3308 | 3316         | 3324 | 3332 | 3340 | 3347 | 3355 | 3363 | 3371   | 3379           |
| 830  | 3387 | 3395         | 3402 | 3410 | 3418 | 3426 | 3434 | 3442 | 3450   | 3458           |
| 840  |      | 3474         |      | 3490 |      |      |      | 3522 |        |                |
|      | 3466 |              | 3482 |      | 3498 | 3506 | 3514 |      | 3530   | 3538           |
| 850  | 3546 | 3554         | 3562 | 3570 | 3578 | 3586 | 3594 | 3602 | 3610   | 3618           |
| 860  | 3626 | 3634         | 3643 | 3651 | 3659 | 3667 | 3675 | 3683 | 3691   | 3700           |
| 870  | 3708 | 3716         | 3724 | 3732 | 3741 | 3749 | 3757 | 3765 | 3773   | 3782           |
| 880  | 3790 | 3798         | 3806 | 3815 | 3823 | 3831 | 3840 | 3848 | 3856   | 3865           |
| 890  | 3873 | 3881         | 3890 | 3898 | 3906 | 3915 | 3923 | 3931 | 3940   | 3948           |
| 900  | 3957 | 3965         | 3973 | 3982 | 3990 | 3999 | 4007 | 4016 | 4024   | 4032           |
| 910  | 4041 | 4049         | 4058 | 4066 | 4075 | 4083 | 4092 | 4100 | 4109   | 4117           |
| 920  | 4126 | 4135         | 4143 | 4152 | 4160 | 4169 | 4177 | 4186 | 4195   | 4203           |
| 930  | 4212 | 4220         | 4229 | 4238 | 4246 | 4255 | 4264 | 4272 | 4281   | 4290           |
| 940  | 4298 | 4307         | 4316 | 4325 | 4333 | 4342 | 4351 | 4359 | 4368   | 4377           |
| 950  | 4386 | 4394         | 4403 | 4412 | 4421 | 4430 | 4438 | 4447 | 4456   | 4465           |
| 960  | 4474 | 4483         | 4491 | 4500 | 4509 | 4518 | 4527 | 4536 | 4545   | 4553           |
| 970  | 4562 | 4571         | 4580 | 4589 | 4598 | 4607 | 4616 | 4625 | 4634   | 4643           |
| 980  | 4652 | 4661         | 4670 | 4679 | 4688 | 4697 | 4706 | 4715 | 4724   | 4733           |
| 990  | 4742 | 4751         | 4760 | 4769 | 4778 | 4787 | 4796 | 4805 | 4814   | 4824           |
| 1000 | 4833 | 4842         | 4851 | 4860 | 4869 | 4878 | 4887 | 4897 | 4906   | 4915           |
| 1010 | 4924 | 4933         | 4942 | 4952 | 4961 | 4970 | 4979 | 4989 | 4998   | 5007           |
| 1020 | 5016 | 5025         | 5035 | 5044 | 5053 | 5063 | 5072 | 5081 | 5090   | 5100           |
| 1030 | 5109 | 5118         | 5128 | 5137 | 5146 | 5156 | 5165 | 5174 | 5184   | 5193           |
| 1040 | 5202 | 5212         | 5221 | 5231 | 5240 | 5249 | 5259 | 5268 | 5278   | 5287           |
| 1050 | 5297 | 5306         | 5316 | 5325 | 5334 | 5344 | 5353 | 5363 | 5372   | 5382           |
| 1060 | 5391 | 5401         | 5410 | 5420 | 5429 | 5439 | 5449 | 5458 | 5468   | 5477           |
| 1070 | 5487 | 5496         | 5506 | 5516 | 5525 | 5535 | 5544 | 5554 | 5564   | 5573           |
| 1080 | 5583 | 5593         | 5602 | 5612 | 5621 | 5631 | 5641 | 5651 | 5660   | 5670           |
| 1090 | 5680 | 5689         | 5699 | 5709 | 5718 | 5728 | 5738 | 5748 | 5757   | 5767           |
| 1100 | 5777 | 5787         | 5796 | 5806 | 5816 | 5826 | 5836 | 5845 | 5855   | 5865           |
| 1110 | 5875 | 5885         | 5895 | 5904 | 5914 | 5924 | 5934 | 5944 | 5954   | 5964           |
| 1120 | 5973 | 5983         | 5993 | 6003 | 6013 | 6023 | 6033 | 6043 | 6053   | 6063           |
| 1130 | 6073 | 6083         | 6093 | 6102 | 6112 | 6122 | 6132 | 6142 | 6152   | 6162           |
| 1140 | 6172 | 6182         | 6192 | 6202 | 6212 | 6223 | 6233 | 6243 | 6253   | 6263           |
| 1150 | 6273 | 6283         | 6293 | 6303 | 6313 | 6323 | 6333 | 6343 | 6353   | 6364           |
| 1160 | 6374 | 6384         | 6394 | 6404 | 6414 | 6424 | 6435 | 6445 | 6455   | 6465           |
| 1170 | 6475 | 6485         | 6496 | 6506 | 6516 | 6526 | 6536 | 6547 | 6557   | 6567           |
| 1180 | 6577 | 6588         | 6598 | 6608 | 6618 | 6629 | 6639 | 6649 | 6659   | 6670           |
| 1190 | 6680 | 6690         | 6701 | 6711 | 6721 | 6732 | 6742 | 6752 | 6763   | 6773           |
| 1200 | 6783 | 6794         | 6804 | 6814 | 6825 | 6835 | 6846 | 6856 | 6866   | 6877           |
| 1210 | 6887 | 6898         | 6908 | 6918 | 6929 | 6939 | 6950 | 6960 | 6971   | 6981           |
| 1220 | 6991 | 7002         | 7012 | 7023 | 7033 | 7044 | 7054 | 7065 | 7075   | 7086           |
| 1230 | 7096 | 7107         | 7117 | 7128 | 7138 | 7149 | 7159 | 7170 | 7181   | 7191           |
| 1240 | 7202 | 7212         | 7223 | 7233 | 7244 | 7255 | 7265 | 7276 | 7286   | 7297           |
| 1250 | 7308 | 7318         | 7329 | 7339 | 7350 | 7361 | 7371 | 7382 | 7393   | 7403           |
| 1260 | 7414 | 7425         | 7435 | 7446 | 7457 | 7467 | 7478 | 7489 | 7500   | 7510           |
| 1270 | 7521 | 7532         | 7542 | 7553 | 7564 | 7575 | 7585 | 7596 | 7607   | 7618           |
| 1280 | 7628 | 7639         | 7650 | 7661 | 7671 | 7682 | 7693 | 7704 | 7715   | 7725           |
| 1290 | 7736 | 7747         | 7758 | 7769 | 7780 | 7790 | 7801 | 7812 | 7823   | 7834           |
|      |      |              |      |      | 7888 |      |      |      |        |                |
| 1300 | 7845 | 7855         | 7866 | 7877 |      | 7899 | 7910 | 7921 | 7932   | 7943           |
| 1310 | 7953 | 7964<br>8074 | 7975 | 7986 | 7997 | 8008 | 8019 | 8030 | 8041   | 8052           |
| 1320 | 8063 | 8074         | 8085 | 8096 | 8107 | 8118 | 8128 | 8139 | 8150   | 8161           |
| 1330 | 8172 | 8183         | 8194 | 8205 | 8216 | 8227 | 8238 | 8249 | 8261   | 8272           |
| 1340 | 8283 | 8294         | 8305 | 8316 | 8327 | 8338 | 8349 | 8360 | 8371   | 8382           |
| 1350 | 8393 | 8404         | 8415 | 8426 | 8437 | 8449 | 8460 | 8471 | 8482   | 8493           |
| 1360 | 8504 | 6515         | 8526 | 8538 | 8549 | 8560 | 8571 | 8582 | 8593   | 8604           |
| 1370 | 8616 | 8627         | 8638 | 8649 | 8660 | 8671 | 8683 | 8694 | 8705   | 8716           |

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# Table d'équivalences normalisées °C/µV des thermocouples type B, selon IEC 584

Valeurs en microvolt

| °C   | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1380 | 8727  | 8738  | 8750  | 8761  | 8772  | 8783  | 8795  | 8806  | 8817  | 8828  |
| 1390 | 8839  | 8851  | 8862  | 8873  | 8884  | 8896  | 8907  | 8918  | 8929  | 8941  |
| 1400 | 8952  | 8963  | 8974  | 8986  | 8997  | 9008  | 9020  | 9031  | 9042  | 9053  |
| 1410 | 9065  | 9076  | 9087  | 9099  | 9110  | 9121  | 9133  | 9144  | 9155  | 9167  |
| 1420 | 9178  | 9189  | 9201  | 9212  | 9223  | 9235  | 9246  | 9257  | 9269  | 9280  |
| 1430 | 9291  | 9303  | 9314  | 9326  | 9337  | 9348  | 9360  | 9371  | 9382  | 9394  |
| 1440 | 9405  | 9417  | 9428  | 9439  | 9451  | 9462  | 9474  | 9485  | 9497  | 9508  |
| 1450 | 9519  | 9531  | 9542  | 9554  | 9565  | 9577  | 9588  | 9599  | 9611  | 9622  |
| 1460 | 9634  | 9645  | 9657  | 9668  | 9680  | 9691  | 9703  | 9714  | 9726  | 9737  |
| 1470 | 9748  | 9760  | 9771  | 9783  | 9794  | 9806  | 9817  | 9829  | 9840  | 9852  |
| 1480 | 9863  | 9875  | 9886  | 9898  | 9909  | 9921  | 9933  | 9944  | 9956  | 9967  |
| 1490 | 9979  | 9990  | 10002 | 10013 | 10025 | 10036 | 10048 | 10059 | 10071 | 10082 |
| 1500 | 10094 | 10106 | 10117 | 10129 | 10140 | 10152 | 10163 | 10175 | 10187 | 10198 |
| 1510 | 10210 | 10221 | 10233 | 10244 | 10256 | 10268 | 10279 | 10291 | 10302 | 10314 |
| 1520 | 10325 | 10337 | 10349 | 10360 | 10372 | 10383 | 10395 | 10407 | 10418 | 10430 |
| 1530 | 10441 | 10453 | 10465 | 10476 | 10488 | 10500 | 10511 | 10523 | 10534 | 10546 |
| 1540 | 10558 | 10569 | 10581 | 10593 | 10604 | 10616 | 10627 | 10639 | 10651 | 10662 |
| 1550 | 10674 | 10686 | 10697 | 10709 | 10721 | 10732 | 10744 | 10756 | 10767 | 10779 |
| 1560 | 10790 | 10802 | 10814 | 10825 | 10837 | 10849 | 10860 | 10872 | 10884 | 10895 |
| 1570 | 10907 | 10919 | 10930 | 10942 | 10954 | 10965 | 10977 | 10989 | 11000 | 11012 |
| 1580 | 11024 | 11035 | 11047 | 11059 | 11070 | 11082 | 11094 | 11105 | 11117 | 11129 |
| 1590 | 11141 | 11152 | 11164 | 11176 | 11187 | 11199 | 11211 | 11222 | 11234 | 11246 |
| 1600 | 11257 | 11269 | 11281 | 11292 | 11304 | 11316 | 11328 | 11339 | 11351 | 11363 |
| 1610 | 11374 | 11386 | 11398 | 11409 | 11421 | 11433 | 11444 | 11456 | 11468 | 11480 |
| 1620 | 11491 | 11503 | 11515 | 11526 | 11538 | 11550 | 11561 | 11573 | 11585 | 11597 |
| 1630 | 11608 | 11620 | 11632 | 11643 | 11655 | 11667 | 11678 | 11690 | 11702 | 11714 |
| 1640 | 11725 | 11737 | 11749 | 11760 | 11772 | 11784 | 11795 | 11807 | 11819 | 11830 |
| 1650 | 11842 | 11854 | 11866 | 11877 | 11889 | 11901 | 11912 | 11924 | 11936 | 11947 |
| 1660 | 11959 | 11971 | 11983 | 11994 | 12006 | 12018 | 12029 | 12041 | 12053 | 12064 |
| 1670 | 12076 | 12088 | 12099 | 12111 | 12123 | 12134 | 12146 | 12158 | 12170 | 12181 |
| 1680 | 12193 | 12205 | 12216 | 12228 | 12240 | 12251 | 12263 | 12275 | 12286 | 12298 |
| 1690 | 12310 | 12321 | 12333 | 12345 | 12356 | 12368 | 12380 | 12391 | 12403 | 12415 |
| 1700 | 12426 | 12438 | 12450 | 12461 | 12473 | 12485 | 12496 | 12508 | 12520 | 12531 |
| 1710 | 12543 | 12555 | 12566 | 12578 | 12590 | 12601 | 12613 | 12624 | 12636 | 12648 |
| 1720 | 12659 | 12671 | 12683 | 12694 | 12706 | 12718 | 12729 | 12741 | 12752 | 12764 |
| 1730 | 12776 | 12787 | 12799 | 12811 | 12822 | 12834 | 12845 | 12857 | 12869 | 12880 |
| 1740 | 12892 | 12903 | 12915 | 12927 | 12938 | 12950 | 12961 | 12973 | 12985 | 12996 |
| 1750 | 13008 | 13019 | 13031 | 13043 | 13054 | 13066 | 13077 | 13089 | 13100 | 13112 |
| 1760 | 13124 | 13135 | 13147 | 13158 | 13170 | 13181 | 13193 | 13204 | 13216 | 13228 |
| 1770 | 13239 | 13251 | 13262 | 13274 | 13285 | 13297 | 13308 | 13320 | 13331 | 13343 |
| 1780 | 13354 | 13366 | 13378 | 13389 | 13401 | 13412 | 13424 | 13435 | 13447 | 13458 |
| 1790 | 13470 | 13481 | 13493 | 13504 | 13516 | 13527 | 13539 | 13550 | 13562 | 13573 |
| 1800 | 13585 | 13596 | 13607 | 13619 | 13630 | 13642 | 13653 | 13665 | 13676 | 13688 |
| 1810 | 13699 | 13711 | 13722 | 13733 | 13745 | 13756 | 13768 | 13779 | 13791 | 13802 |
| 1820 | 13814 |       |       |       |       |       |       |       |       |       |

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# Table d'équivalences normalisées °C/µV des thermocouples type R, selon IEC 584

Valeurs en microvolt

|            |      |                          |      |      |      |              |              |          | Valeur | s en microvolt |
|------------|------|--------------------------|------|------|------|--------------|--------------|----------|--------|----------------|
| °C         | 0    | -1                       | -2   | -3   | -4   | -5           | -6           | -7       | -8     | -9             |
| -50        | -226 |                          | _    |      |      |              |              | -        |        |                |
| -40        | -188 | -192                     | -196 | -200 | -204 | -207         | -211         | -215     | -219   | -223           |
| -30        | -145 | -150                     | -154 | -158 | -163 | -167         | -171         | -175     | -180   | -184           |
| -20        | -100 | -105                     | -109 | -114 | -119 | -123         | -128         | -132     | -137   | -141           |
| -10        | -51  | -56                      | -61  | -66  | -71  | -76          | -81          | -86      | -91    | -95            |
| 0          | 0    | -50                      | -11  | -16  | -21  | -26          | -31          | -36      | -41    | -46            |
| °C         | 0    | -5<br>1                  | 2    | 3    | 4    | -20<br>5     | 6            | -30<br>7 | -41    | 9              |
|            |      |                          | 11   |      |      | 27           |              |          |        |                |
| 0          | 0    | 5                        |      | 16   | 21   |              | 32           | 38       | 43     | 49             |
| 10         | 54   | 60                       | 65   | 71   | 77   | 82           | 88           | 94       | 100    | 105            |
| 20         | 111  | 117                      | 123  | 129  | 135  | 141          | 147          | 152      | 158    | 165            |
| 30         | 171  | 177                      | 183  | 189  | 195  | 201          | 207          | 214      | 220    | 226            |
| 40         | 232  | 239                      | 245  | 251  | 258  | 264          | 271          | 277      | 283    | 290            |
| 50         | 296  | 303                      | 310  | 316  | 323  | 329          | 336          | 343      | 349    | 356            |
| 60         | 363  | 369                      | 376  | 383  | 390  | 397          | 403          | 410      | 417    | 424            |
| 70         | 431  | 438                      | 445  | 452  | 459  | 466          | 473          | 480      | 487    | 494            |
| 80         | 501  | 508                      | 515  | 523  | 530  | 537          | 544          | 552      | 559    | 566            |
| 90         | 573  | 581                      | 588  | 595  | 603  | 610          | 617          | 625      | 632    | 640            |
| 100        | 647  | 655                      | 662  | 670  | 677  | 685          | 692          | 700      | 708    | 715            |
| 110        | 723  | 730                      | 738  | 746  | 754  | 761          | 769          | 777      | 784    | 792            |
| 120        | 800  | 808                      | 816  | 824  | 831  | 839          | 847          | 855      | 863    | 871            |
| 130        | 879  | 887                      | 895  | 903  | 911  | 919          | 927          | 935      | 943    | 951            |
| 140        | 959  | 967                      | 975  | 983  | 992  | 1000         | 1008         | 1016     | 1024   | 1032           |
| 150        | 1041 | 1049                     | 1057 | 1065 | 1074 | 1082         | 1090         | 1099     | 1107   | 1115           |
| 160        | 1124 | 1132                     | 1140 | 1149 | 1157 | 1166         | 1174         | 1183     | 1191   | 1200           |
| 170        | 1208 | 1217                     | 1225 | 1234 | 1242 | 1251         | 1259         | 1268     | 1276   | 1200           |
| 180        | 1206 | 1302                     | 1311 | 1319 | 1328 | 1337         |              | 1354     |        | 1372           |
|            |      |                          |      |      |      |              | 1345         |          | 1363   |                |
| 190        | 1380 | 1389                     | 1398 | 1407 | 1415 | 1424         | 1433         | 1442     | 1450   | 1459           |
| 200        | 1468 | 1477                     | 1486 | 1495 | 1504 | 1512         | 1521         | 1530     | 1539   | 1548           |
| 210        | 1557 | 1566                     | 1575 | 1584 | 1593 | 1602         | 1611         | 1620     | 1629   | 1638           |
| 220        | 1647 | 1656                     | 1665 | 1674 | 1683 | 1692         | 1702         | 1711     | 1720   | 1729           |
| 230        | 1738 | 1747                     | 1756 | 1766 | 1775 | 1784         | 1793         | 1802     | 1812   | 1821           |
| 240        | 1830 | 1839                     | 1849 | 1858 | 1867 | 1876         | 1886         | 1895     | 1904   | 1914           |
| 250        | 1923 | 1932                     | 1942 | 1951 | 1960 | 1970         | 1979         | 1988     | 1998   | 2007           |
| 260        | 2017 | 2026                     | 2036 | 2045 | 2054 | 2064         | 2073         | 2083     | 2092   | 2102           |
| 270        | 2111 | 2121                     | 2130 | 2140 | 2149 | 2159         | 2169         | 2178     | 2188   | 2197           |
| 280        | 2207 | 2216                     | 2226 | 2236 | 2245 | 2255         | 2264         | 2274     | 2284   | 2293           |
| 290        | 2303 | 2313                     | 2322 | 2332 | 2342 | 2351         | 2361         | 2371     | 2381   | 2390           |
| 300        | 2400 | 2410                     | 2420 | 2429 | 2439 | 2449         | 2459         | 2468     | 2478   | 2488           |
| 310        | 2498 | 2508                     | 2517 | 2527 | 2537 | 2547         | 2557         | 2567     | 2577   | 2586           |
| 320        | 2596 | 2606                     | 2616 | 2626 | 2636 | 2646         | 2656         | 2666     | 2676   | 2685           |
| 330        | 2695 | 2705                     | 2715 | 2725 | 2735 | 2745         | 2755         | 2765     | 2775   | 2785           |
| 340        | 2795 | 2805                     | 2815 | 2825 | 2835 | 2845         | 2855         | 2866     | 2876   | 2886           |
| 350        | 2896 | 2906                     | 2916 | 2926 | 2936 | 2946         | 2956         | 2966     | 2977   | 2987           |
| 360        | 2997 | 3007                     | 3017 | 3027 | 3037 | 3048         | 3058         | 3068     | 3078   | 3088           |
| 370        | 3099 | 3109                     | 3119 | 3129 | 3139 | 3150         | 3160         | 3170     | 3180   | 3191           |
| 380        | 3201 | 3211                     | 3221 | 3232 | 3242 | 3252         | 3263         | 3273     | 3283   | 3293           |
| 390        |      |                          |      |      |      |              |              | 3376     |        | 3397           |
|            | 3304 | 3314                     | 3324 | 3335 | 3345 | 3355         | 3366         |          | 3386   |                |
| 400        | 3407 | 3418                     | 3428 | 3438 | 3449 | 3459         | 3470         | 3480     | 3490   | 3501           |
| 410        | 3511 | 3522                     | 3532 | 3543 | 3553 | 3563         | 3574         | 3584     | 3595   | 3605           |
| 420        | 3616 | 3626                     | 3637 | 3647 | 3658 | 3668         | 3679         | 3689     | 3700   | 3710           |
| 430        | 3721 | 3731                     | 3742 | 3752 | 3763 | 3774         | 3784         | 3795     | 3805   | 3816           |
| 440        | 3826 | 3837                     | 3848 | 3858 | 3869 | 3879         | 3890         | 3901     | 3911   | 3922           |
| 450        | 3933 | 3943                     | 3954 | 3964 | 3975 | 3986         | 3996         | 4007     | 4018   | 4028           |
| 460        | 4039 | 4050                     | 4061 | 4071 | 4082 | 4093         | 4103         | 4114     | 4125   | 4136           |
| 470        | 4146 | 4157                     | 4168 | 4178 | 4189 | 4200         | 4211         | 4222     | 4232   | 4243           |
| 480        | 4254 | 4265                     | 4275 | 4286 | 4297 | 4308         | 4319         | 4329     | 4340   | 4351           |
| 490        | 4362 | 4373                     | 4384 | 4394 | 4405 | 4416         | 4427         | 4438     | 4449   | 4460           |
| 500        | 4471 | 4481                     | 4492 | 4503 | 4514 | 4525         | 4536         | 4547     | 4558   | 4569           |
| 510        | 4580 | 4591                     | 4601 | 4612 | 4623 | 4634         | 4645         | 4656     | 4667   | 4678           |
| 520        | 4689 | 4700                     | 4711 | 4722 | 4733 | 4744         | 4755         | 4766     | 4777   | 4788           |
| 530        | 4799 | 4810                     | 4821 | 4832 | 4843 | 4854         | 4865         | 4876     | 4888   | 4899           |
| 540        | 4910 | 4921                     | 4932 | 4943 | 4954 | 4965         | 4976         | 4987     | 4998   | 5009           |
| 550        | 5021 | 5032                     | 5043 | 5054 | 5065 | 5076         | 5087         | 5099     | 5110   | 5121           |
| 560        | 5132 | 5143                     | 5154 | 5166 | 5177 | 5188         | 5199         | 5210     | 5221   | 5233           |
| 570        | 5244 | 5255                     | 5266 | 5278 | 5289 | 5300         | 5311         | 5322     | 5334   | 5345           |
| 580        | 5356 | 5368                     | 5379 | 5390 | 5401 | 5413         | 5424         | 5435     | 5446   | 5458           |
| 590        | 5469 | 5480                     | 5492 | 5503 | 5514 | 5526         | 5537         | 5548     | 5560   | 5571           |
| 600        | 5582 | 5594                     | 5605 | 5616 | 5628 |              |              | 5662     |        |                |
|            |      | 559 <del>4</del><br>5707 |      |      |      | 5639<br>5753 | 5650<br>5764 |          | 5673   | 5685           |
| 610        | 5696 |                          | 5719 | 5730 | 5742 | 5753         | 5764         | 5776     | 5787   | 5799           |
| 620        | 5810 | 5821                     | 5833 | 5844 | 5856 | 5867         | 5879         | 5890     | 5902   | 5913           |
| 630<br>640 | 5925 | 5936                     | 5948 | 5959 | 5971 | 5982         | 5994         | 6005     | 6017   | 6028           |
|            | 6040 | 6051                     | 6063 | 6074 | 6086 | 6098         | 6109         | 6121     | 6132   | 6144           |

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# Table d'équivalences normalisées °C/µV des thermocouples type R, selon IEC 584

Valeurs en microvolt

|              |        |        |       |       |           |                      |       |         | Valeur | s en microvolt          |
|--------------|--------|--------|-------|-------|-----------|----------------------|-------|---------|--------|-------------------------|
| °C           | 0      | 1      | 2     | 3     | 4         | 5                    | 6     | 7       | 8      | 9                       |
| 650          | 6155   | 6167   | 6179  | 6190  | 6202      | 6213                 | 6225  | 6237    | 6248   | 6260                    |
| 660          | 6272   | 6283   | 6295  | 6307  | 6318      | 6330                 | 6342  | 6353    | 6365   | 6377                    |
| 670          | 6388   | 6400   | 6412  | 6423  | 6435      | 6447                 | 6458  | 6470    | 6482   | 6494                    |
| 680          | 6505   | 6517   | 6529  | 6541  | 6552      | 6564                 | 6576  | 6588    | 6599   | 6611                    |
| 690          | 6623   | 6635   | 6647  | 6658  | 6670      | 6682                 | 6694  | 6706    | 6718   | 6729                    |
| 700          | 6741   | 6753   | 6765  | 6777  | 6789      | 6800                 | 6812  | 6824    | 6836   | 6848                    |
| 710          | 6860   | 6872   | 6884  | 6895  | 6907      | 6919                 | 6931  | 6943    | 6955   | 6967                    |
| 710          | 6979   | 6991   | 7003  | 7015  | 7027      | 7039                 | 7051  | 7063    | 7074   | 7086                    |
| 730          | 7098   | 7110   | 7122  | 7134  |           |                      | 7170  | 7182    |        | 7000                    |
|              |        |        |       |       | 7146      | 7158                 |       |         | 7194   |                         |
| 740          | 7218   | 7231   | 7243  | 7255  | 7267      | 7279                 | 7291  | 7303    | 7315   | 7327                    |
| 750          | 7339   | 7351   | 7363  | 7375  | 7387      | 7399                 | 7412  | 7424    | 7436   | 7448                    |
| 760          | 7460   | 7472   | 7484  | 7496  | 7509      | 7521                 | 7533  | 7545    | 7557   | 7569                    |
| 770          | 7582   | 7594   | 7606  | 7618  | 7630      | 7642                 | 7655  | 7667    | 7679   | 7691                    |
| 780          | 7703   | 7716   | 7728  | 7740  | 7752      | 7765                 | 7777  | 7789    | 7801   | 7814                    |
| 790          | 7826   | 7838   | 7850  | 7863  | 7875      | 7887                 | 7900  | 7912    | 7924   | 7937                    |
| 800          | 7949   | 7961   | 7973  | 7986  | 7998      | 8010                 | 8023  | 8035    | 8047   | 8060                    |
| 810          | 8072   | 8085   | 8097  | 8109  | 8122      | 8134                 | 8146  | 8159    | 8171   | 8184                    |
| 820          | 8196   | 8208   | 8221  | 8233  | 8246      | 8258                 | 8271  | 8283    | 8295   | 8308                    |
| 830          | 8320   | 8333   | 8345  | 8358  | 8370      | 8383                 | 8395  | 8408    | 8420   | 8433                    |
| 840          | 8445   | 8458   | 8470  | 8483  | 8495      | 8508                 | 8520  | 8533    | 8545   | 8558                    |
| 850          | 8570   | 8583   | 8595  | 8608  | 8621      | 8633                 | 8646  | 8658    | 8671   | 8683                    |
| 860          | 8696   | 8709   | 8721  | 8734  | 8746      | 8759                 | 8772  | 8784    | 8797   | 8810                    |
| 870          | 8822   | 8835   | 8847  | 8860  | 8873      | 8885                 | 8898  | 8911    | 8923   | 8936                    |
| 880          | 8949   | 8961   | 8974  | 8987  | 9000      | 9012                 | 9025  | 9038    | 9050   | 9063                    |
| 890          | 9076   | 9089   | 9101  | 9114  | 9127      | 9140                 | 9152  | 9165    | 9178   | 9191                    |
| 900          | 9203   | 9216   | 9229  | 9242  | 9254      | 9267                 | 9280  | 9293    | 9306   | 9319                    |
| 910          | 9331   | 9344   | 9357  | 9370  | 9383      | 9395                 | 9408  | 9421    | 9434   | 9447                    |
| 920          | 9460   | 9473   | 9485  | 9498  | 9511      | 9524                 | 9537  | 9550    | 9563   | 9576                    |
| 930          | 9589   | 9602   | 9614  | 9627  | 9640      | 9653                 | 9666  | 9679    | 9692   | 9705                    |
| 940          | 9718   | 9731   | 9744  | 9757  | 9770      | 9783                 | 9796  | 9809    | 9822   | 9835                    |
| 950          | 9848   | 9861   | 9874  | 9887  | 9900      | 9913                 | 9926  | 9939    | 9952   | 9965                    |
| 960          | 9978   | 9991   | 10004 | 10017 | 10030     | 10043                | 10056 | 10069   | 10082  | 10095                   |
| 970          | 10109  | 10122  | 10135 | 10148 | 10161     | 10174                | 10187 | 10200   | 10213  | 10227                   |
| 980          | 10240  | 10122  | 10266 | 10279 | 10292     | 10305                | 10319 | 10332   | 10345  | 10358                   |
| 990          | 10240  | 10233  | 13098 | 10279 | 10292     | 10303                | 10450 | 10332   | 10343  | 10338                   |
| 1000         | 10571  | 10504  | 10530 | 10411 | 10556     | 10437                | 10430 | 10596   | 10609  | 10490                   |
|              |        |        |       |       |           |                      |       |         |        | 1                       |
| 1010         | 10636  | 10649  | 10662 | 10675 | 10689     | 10702                | 10715 | 10729   | 10742  | 10755                   |
| 1020         | 10768  | 10782  | 10795 | 10808 | 10822     | 10835                | 10848 | 10862   | 10875  | 10888                   |
| 1030         | 10902  | 10915  | 10928 | 10942 | 10955     | 10968                | 10982 | 10995   | 11009  | 11022                   |
| 1040         | 11035  | 11049  | 11062 | 11076 | 11089     | 11102                | 11116 | 11129   | 11143  | 11156                   |
| 1050         | 11170  | 11183  | 11196 | 11210 | 11223     | 11237                | 11250 | 11264   | 11277  | 11291                   |
| 1060         | 11304  | 11318  | 11331 | 11345 | 11358     | 11372                | 11385 | 11399   | 11412  | 11426                   |
| 1070         | 11439  | 11453  | 11466 | 11480 | 11493     | 11507                | 11520 | 11534   | 11547  | 11561                   |
| 1080         | 11574  | 11588  | 11602 | 11615 | 11629     | 11642                | 11656 | 11669   | 11683  | 11697                   |
| 1090         | 11710  | 11724  | 11737 | 11751 | 11765     | 11778                | 11792 | 11805   | 11819  | 11833                   |
| 1100         | 11846  | 11860  | 11874 | 11887 | 11901     | 11914                | 11928 | 11942   | 11955  | 11969                   |
| 1110         | 11983  | 11996  | 12010 | 12024 | 12037     | 12051                | 12065 | 12078   | 12092  | 12106                   |
| 1120         | 12119  | 12133  | 12147 | 12161 | 12174     | 12188                | 12202 | 12215   | 12229  | 12243                   |
| 1130         | 12257  | 12270  | 12284 | 12298 | 12311     | 12325                | 12339 | 12353   | 12366  | 12380                   |
| 1140         | 12394  | 12408  | 12421 | 12435 | 12449     | 12463                | 12476 | 12490   | 12504  | 12518                   |
| 1150         | 12532  | 12545  | 12559 | 12573 | 12587     | 12600                | 12614 | 12628   | 12642  | 12656                   |
| 1160         | 12669  | 12683  | 12697 | 12711 | 12725     | 12739                | 12752 | 12766   | 12780  | 12794                   |
| 1170         | 12808  | 12822  | 12835 | 12849 | 12863     | 12877                | 12891 | 12905   | 12918  | 12932                   |
| 1180         | 12946  | 12960  | 12974 | 12988 | 13002     | 13016                | 13029 | 13043   | 13057  | 13071                   |
| 1190         | 13085  | 13099  | 13113 | 13127 | 13140     | 13154                | 13168 | 13182   | 13196  | 13210                   |
| 1200         | 13224  | 13238  | 13252 | 13266 | 13280     | 13293                | 13307 | 13321   | 13335  | 13349                   |
| 1210         | 13363  | 13377  | 13391 | 13405 | 13419     | 13433                | 13447 | 13461   | 13475  | 13489                   |
| 1220         | 13502  | 13516  | 13530 | 13544 | 13558     | 13572                | 13586 | 13600   | 13614  | 13628                   |
| 1230         | 13642  | 13656  | 13670 | 13684 | 13698     | 13712                | 13726 | 13740   | 13754  | 13768                   |
| 1240         | 13782  | 13796  | 13810 | 13824 | 13838     | 13852                | 13866 | 13880   | 13894  | 13908                   |
| 1250         | 13922  | 13936  | 13950 | 13964 | 13978     | 13992                | 14006 | 14020   | 14034  | 14048                   |
|              |        |        |       | 14104 | 14118     | 14132                | 14146 | 14160   | 14174  | 14188                   |
|              | 1/1062 | 1/10/6 |       |       | . ı⇔ I IO | ı ı <del>+</del> l∂∠ | 14140 | 1 1 100 | 141/4  | 1+100                   |
| 1260         | 14062  | 14076  | 14090 |       |           |                      |       |         |        | 1/12/20                 |
| 1260<br>1270 | 14202  | 14216  | 14230 | 14244 | 14258     | 14272                | 14286 | 14301   | 14315  | 14329                   |
| 1260         |        |        |       |       |           |                      |       |         |        | 14329<br>14469<br>14610 |

(suite page 17)

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# Table d'équivalences normalisées °C/µV des thermocouples type R, selon IEC 584

Valeurs en microvolt

| °C   | 0     | 1      | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1300 | 14624 | 14638  | 14652 | 14666 | 14680 | 14694 | 14708 | 14722 | 14737 | 14751 |
| 1310 | 14765 | 14779  | 14793 | 14807 | 14821 | 14835 | 14849 | 14863 | 14877 | 14891 |
| 1320 | 14906 | 14920  | 14934 | 14948 | 14962 | 14976 | 14990 | 15004 | 15018 | 15032 |
| 1330 | 15047 | 15061  | 15075 | 15089 | 15103 | 15117 | 15131 | 15145 | 15159 | 15173 |
| 1340 | 15188 | 15202  | 15216 | 15230 | 15244 | 15258 | 15272 | 15286 | 15300 | 15315 |
| 1350 | 15329 | 15343  | 15357 | 15371 | 15385 | 15399 | 15413 | 15427 | 15442 | 15456 |
| 1360 | 15470 | 15484  | 15498 | 15512 | 15526 | 15540 | 15555 | 15569 | 15583 | 15597 |
| 1370 | 15611 | 15625  | 15639 | 15653 | 15667 | 15682 | 15696 | 15710 | 15724 | 15738 |
| 1380 | 15752 | 15766  | 15780 | 15795 | 15809 | 15823 | 15837 | 15851 | 15865 | 15879 |
| 1390 | 15893 | 15908  | 15922 | 15936 | 15950 | 15964 | 15978 | 15992 | 16006 | 16021 |
| 1400 | 16035 | 16049  | 16063 | 16077 | 16091 | 16105 | 16119 | 16134 | 16148 | 16162 |
| 1410 | 16176 | 16190  | 16204 | 16218 | 16232 | 16247 | 16261 | 16275 | 16289 | 16303 |
| 1420 | 16317 | 16331  | 16345 | 16360 | 16374 | 16388 | 16402 | 16416 | 16430 | 16444 |
| 1430 | 16458 | 16472  | 16487 | 16501 | 16515 | 16529 | 16543 | 16557 | 16571 | 16585 |
| 1440 | 16599 | 16614  | 16628 | 16642 | 16656 | 16670 | 16684 | 16698 | 16712 | 16726 |
| 1450 | 16741 | 16755  | 16769 | 16783 | 16797 | 16811 | 16825 | 16839 | 16853 | 16867 |
| 1460 | 16882 | 16896  | 16910 | 16924 | 16938 | 16952 | 16966 | 16980 | 16994 | 17008 |
| 1470 | 17022 | 17037  | 17051 | 17065 | 17079 | 17093 | 17107 | 17121 | 17135 | 17149 |
| 1480 | 17163 | 17177  | 17192 | 17206 | 17220 | 17234 | 17248 | 17262 | 17276 | 17290 |
| 1490 | 17304 | 17318  | 17332 | 17346 | 17360 | 17374 | 17388 | 17403 | 17417 | 17431 |
| 1500 | 17445 | 17459  | 17473 | 17487 | 17501 | 17515 | 17529 | 17543 | 17557 | 17571 |
| 1510 | 17585 | 17599  | 17613 | 17627 | 17641 | 17655 | 17669 | 17684 | 17698 | 17712 |
| 1520 | 17726 | 17740  | 17754 | 17768 | 17782 | 17796 | 17810 | 17824 | 17838 | 17852 |
| 1530 | 17866 | 17880  | 17894 | 17908 | 17922 | 17936 | 17950 | 17964 | 17978 | 17992 |
| 1540 | 18006 | 18020  | 18034 | 18048 | 18062 | 18076 | 18090 | 18104 | 18118 | 18132 |
| 1550 | 18146 | 18160  | 18174 | 18188 | 18202 | 18216 | 18230 | 18244 | 18258 | 18272 |
| 1560 | 18286 | 18299  | 18313 | 18327 | 18341 | 18355 | 18369 | 18383 | 18397 | 18411 |
| 1570 | 18425 | 18439  | 18453 | 18467 | 18481 | 18495 | 18509 | 18523 | 18537 | 18550 |
| 1580 | 18564 | 18578  | 18592 | 18606 | 18620 | 18634 | 18648 | 18662 | 18676 | 18690 |
| 1590 | 18703 | 18717  | 18731 | 18745 | 18759 | 18773 | 18787 | 18801 | 18815 | 18828 |
| 1600 | 18842 | 18856  | 18870 | 18884 | 18898 | 18912 | 18926 | 18939 | 18953 | 18967 |
| 1610 | 18981 | 18995  | 19009 | 19023 | 19036 | 19050 | 19064 | 19078 | 19092 | 19106 |
| 1620 | 19119 | 19133  | 19147 | 19161 | 19175 | 19188 | 19202 | 19216 | 19230 | 19244 |
| 1630 | 19257 | 19271  | 19285 | 19299 | 19313 | 19326 | 19340 | 19354 | 19368 | 19382 |
| 1640 | 19395 | 19409  | 19423 | 19437 | 19450 | 19464 | 19478 | 19492 | 19505 | 19519 |
| 1650 | 19533 | 19547  | 19560 | 19574 | 19588 | 19602 | 19615 | 19629 | 19643 | 19656 |
| 1660 | 19670 | 19684  | 19698 | 19711 | 19725 | 19739 | 19752 | 19766 | 19780 | 19793 |
| 1670 | 19807 | 19821  | 19834 | 19848 | 19862 | 19875 | 19889 | 19903 | 19916 | 19930 |
| 1680 | 19944 | 19957  | 19971 | 19985 | 19998 | 20012 | 20025 | 20039 | 20053 | 20066 |
| 1690 | 20080 | 20093  | 20107 | 20120 | 20134 | 20148 | 20161 | 20175 | 20188 | 20202 |
| 1700 | 20215 | 20229  | 20242 | 20256 | 20269 | 20283 | 20296 | 20309 | 20323 | 20336 |
| 1710 | 20350 | 20363  | 20377 | 20390 | 20403 | 20417 | 20430 | 20443 | 20457 | 20470 |
| 1720 | 20483 | 20497  | 20510 | 20523 | 20537 | 20550 | 20563 | 20576 | 20590 | 20603 |
| 1730 | 20616 | 20629  | 20642 | 20656 | 20669 | 20682 | 20695 | 20708 | 20721 | 20734 |
| 1740 | 20748 | 20761. | 20774 | 20787 | 20800 | 20813 | 20826 | 20839 | 20852 | 20865 |
| 1750 | 20878 | 20891  | 20904 | 20916 | 20929 | 20942 | 20955 | 20968 | 20981 | 20994 |
| 1760 | 21006 | 21019  | 21032 | 21045 | 21057 | 21070 | 21083 | 21096 |       |       |

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# Table d'équivalences normalisées °C/µV des thermocouples type U, selon DIN 4371

Valeurs en microvolt

| °C   | 0     | -1    | -2    | -3    | -4    | -5    | -6    | -7    | -8    | -9    |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -200 | -5700 |       |       |       |       |       |       |       |       |       |
| -100 | -3400 | -3680 | -3950 | -4210 | -4460 | -4690 | -4910 | -5120 | -5320 | -5510 |
| 0    | 0     | -390  | -770  | -1140 | -1500 | 1850  | -2180 | -2500 | -2810 | -3110 |
| °C   | 0     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
| 0    | 0     | 400   | 800   | 1210  | 1630  | 2050  | 2480  | 2910  | 3350  | 3800  |
| 100  | 4250  | 4710  | 5180  | 5650  | 6130  | 6620  | 7120  | 7630  | 8150  | 8670  |
| 200  | 9200  | 9740  | 10290 | 10850 | 11410 | 11980 | 12550 | 13130 | 13710 | 14300 |
| 300  | 14900 | 15500 | 16100 | 16700 | 17310 | 17920 | 18530 | 19140 | 20380 | 20380 |
| 400  | 21000 | 21620 | 22250 | 22880 | 23510 | 24150 | 24790 | 25440 | 26090 | 26750 |
| 500  | 27410 | 28080 | 28750 | 29430 | 30110 | 30180 | 31490 | 32190 | 32890 | 33600 |
| 600  | 34310 |       |       |       |       |       |       |       |       |       |

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