



6157/1108

## 8-1 1968年国际实用温标(IPTS-68)定义的固定点

| 平 衡 状 态                                                            | 国 际 实 用 温 度 指 定 值  |                            |
|--------------------------------------------------------------------|--------------------|----------------------------|
|                                                                    | $T_{68}(\text{K})$ | $t_{68}(^{\circ}\text{C})$ |
| 平 衡 氢 三 相 点                                                        | 13.81              | -259.34                    |
| 平衡氢在 $\frac{25}{76}$ 标准大气压下的沸点                                     | 17.042             | -256.103                   |
| 平 衡 氢 的 沸 点                                                        | 20.28              | -252.87                    |
| 氮 的 沸 点                                                            | 27.102             | -246.048                   |
| 氧 的 三 相 点                                                          | 54.361             | -218.789                   |
| 氧 的 沸 点                                                            | 90.188             | -182.962                   |
| 水的三相点(应有海水同位素成分)                                                   | 273.16             | 0.01                       |
| 水的沸点(应有海水同位素成分。可用锡的凝固点<br>$t_{68} = 231.9681^{\circ}\text{C}$ 代替。) | 373.15             | 100                        |
| 锌 的 凝 固 点                                                          | 692.73             | 419.58                     |
| 银 的 凝 固 点                                                          | 1235.08            | 961.93                     |
| 金 的 凝 固 点                                                          | 1337.58            | 1064.43                    |

说明：① 除三相点和已说明压力者外，都是在1个标准大气压( $101325\text{N} \cdot \text{m}^{-2}$ )下的平衡状态的数据。

② 平衡氢在 $\frac{25}{76}$ 标准大气压( $33330.6\text{N} \cdot \text{m}^{-2}$ )下的沸点有些资料称为“17.042K点”。

## 8-2 棒式玻璃液体温度计的校正

## (1) 液柱露出部分的校正

市售的棒式玻璃液体温度计，其刻度是在整个温度计均匀受热的情况下标定的。但是，在实际使用中，温度计的杆通常露在仪器外面。在这种情况下，露出的玻璃杆和其中的液柱的受热情况不同于球部的受热情况，这就会将误差

引入观测的温度。对于要求严格的工作，这种误差必须通过实验加以测定。然而，对于一般工作，用下列公式加以校正即够精确：

$$T_{\text{校}} = T_{\text{观}} + f \cdot n(T_{\text{观}} - T_{\text{中}}) = T_{\text{观}} + \Delta T$$

其中， $T_{\text{校}}$  代表校正后的温度； $T_{\text{观}}$  为温度计示度； $T_{\text{中}}$  是露出部分的平均温度，它可用另一辅助温度计来测定，辅助温度计的液球部分放在露出液柱的高度中点上； $n$  是露出液柱的刻度（温度刻度）数； $f$  为校正系数，它的数值与玻璃的种类与温度计的构造有关。对于要求不太严格的工作来说，水银温度计的  $f$  值一般采用 0.00016。对于有机液体温度计， $f$  值通常用 0.001。

下表所示，是用  $f \approx 0.00016$  计算出的水银温度计露出部分的校正值。

$\Delta T$  值 (°C)

(水银温度计,  $f \approx 0.00016$ )

| $n$ | $T_{\text{观}} - T_{\text{中}}$ |      |      |      |      |      |      |      |
|-----|-------------------------------|------|------|------|------|------|------|------|
|     | 10                            | 20   | 40   | 60   | 80   | 100  | 120  | 140  |
| 10  | 0.02                          | 0.03 | 0.06 | 0.10 | 0.13 | 0.16 | 0.19 | 0.22 |
| 20  | 0.03                          | 0.06 | 0.13 | 0.19 | 0.26 | 0.32 | 0.38 | 0.45 |
| 40  | 0.06                          | 0.13 | 0.26 | 0.38 | 0.51 | 0.64 | 0.77 | 0.90 |
| 60  | 0.10                          | 0.19 | 0.38 | 0.58 | 0.77 | 0.96 | 1.15 | 1.34 |
| 80  | 0.13                          | 0.26 | 0.51 | 0.77 | 1.02 | 1.28 | 1.54 | 1.79 |
| 100 |                               |      | 0.64 | 0.96 | 1.28 | 1.60 | 1.92 | 2.24 |
| 120 |                               |      | 0.77 | 1.15 | 1.54 | 1.92 | 2.30 | 2.69 |
| 140 |                               |      | 0.90 | 1.34 | 1.79 | 2.24 | 2.69 | 3.14 |

## (2) 校正用标准物质

为了校正棒式液体温度计的刻度，可选用一标准温度计与之比较。但在一般实验室中，往往不备有标准温度计，因此常采用纯粹有机化合物的熔点作为校正的标准。校正的方法是：选择数种标准物质，测定它们的熔点；以观测的熔点（温度计读数）作纵坐标，以标准物质的熔点作横坐标画图，便可得校正曲线。用此法校正的温度计，使用时不须再作露出部分校正。下表列出常用的

一些标准物质，以供选用。

| 标准物质名称        | 熔 点, °C |                                     |
|---------------|---------|-------------------------------------|
|               | 文献数据    | 产 品 规 格 所 示 数 据〔注〕                  |
| 冰             | 0       |                                     |
| 环 己 醇         | 25.5    | ①22~4(分); ②23~5(二)                  |
| 二 苯 甲 酮 (α)   | 48.1    | ①47~9(化); ②47~9(三)                  |
| 对 硝 基 甲 苯     | 54.5    | ③51(化); ⑤51.50                      |
| 对 二 氯 苯       | 53.1    | ①53~4.5(化); ②52~3(三)                |
| 二 苯 胺         | 53.5    | ②52.5~3.5(二); ③52.5~3.5(分)          |
| 萘             | 80.55   | ①80.0~.1(标); ②79~82(三); ⑤80.25      |
| 间 二 硝 基 苯     | 89.8    | ①90~1(标), 89.5~91(化); ②89.5~91.5(二) |
| 乙 酰 (替) 苯 胺   | 114.3   | ①115~6(标); ②113~5(二); ③113~5(分)     |
| 苯 甲 酸         | 122.4   | ②121~3(二); ①③121~3(分)               |
| 己 二 酸         | 153     | ①151.5~2.5(分); ②151~4(三)            |
| 水 杨 酸         | 158.5   | ①158.5~60.5(分); ②156.8~60(二)        |
| 对 甲 氧 基 苯 甲 酸 | 185     | ①183~5(实); ②181~4(三); ⑤182.50       |
| 丁 二 酸         | 188     | ①③184~7(优); ②184.0~7.0(一、二)         |
| 2-氯 萘 醌       | 211     | ①209~11(实); ②206~9(三); ⑤209.00      |
| 萘             | 216.2   | ②213~8(三)                           |
| 邻 苯 二 甲 酰 亚 胺 | 233     | ②233.5~8.0(二)                       |
| 对 硝 基 苯 甲 酸   | 242     | ①238~43(化); ②238~43(三)              |
| 呋 唑           | 247     | ②244~6(三); ⑤245.00                  |
| 酚 酞           | 262     | ②260~4(指); ③260~4(指)                |
| 蒽 醌           | 286.0   | ④282~6(化); ⑤284.50                  |
| N,N'-二乙酰联苯胺   | 331     |                                     |

〔注〕 实际使用的标准物质常非纯品,这里附列几种常用产品规格的数据。①和③、④分别为上海试剂一厂和三厂、四厂的产品;②为北京化工厂产品;⑤是美国 Fisher Scientific 公司专为温度标准提供的商品,熔点测准至  $\pm 0.05^{\circ}\text{C}$  以内。(标)指有机分析标准试剂,(优)(分)和(化)分别指优级纯、分析纯和化学纯,(实)指实验试剂,(指)表示指示剂;(一)、(二)和(三)分别指一级品、二级品和三级品,相当于优级纯、分析纯和化学纯。

## 8-3 热

## (1) 常用热

| 热电偶名称                             | 型 号  | 〔注1〕<br>分度号 | 热 电 极 材 料 |                                                        |          | 电阻系数<br>(20°C时)<br>欧·毫米 <sup>2</sup> /米 |
|-----------------------------------|------|-------------|-----------|--------------------------------------------------------|----------|-----------------------------------------|
|                                   |      |             | 极性        | 化 学 成 分                                                | 与磁<br>作用 |                                         |
| 铂铑 <sub>10</sub> -铂               | WRLB | LB-3        | 正         | 铂铑 <sub>10</sub> : Pt90%, Rh10%                        | 无        | ≈0.19                                   |
|                                   |      | (LB-2)      | 负         | 铂: Pt100%                                              | 无        | <0.106                                  |
| 镍铬-镍铝                             | WREU | EU-2        | 正         | 镍铬: Ni89%, Cr10%,<br>Fe1.0%                            | 无        | ≈0.66                                   |
|                                   |      | (EU)        | 负         | 镍铝: Ni94%, Al2.0%,<br>Mn2.5%, Si1.0%,<br>Fe0.5%        | 有        | ≈0.35                                   |
| 镍铬-镍硅                             | WREU | EU-2        | 正         | 镍铬: Cr9~10%,<br>Mn0.3%, Si0.6%,<br>Co0.4~0.7%,<br>Ni余量 | 无        | ≈0.68                                   |
|                                   |      | (EU)        | 负         | 镍硅: Mn0.6%, Si2~3%,<br>Co0.4~0.7%,<br>Ni余量             | 有        | 0.25~0.33                               |
| 镍铬-考铜                             | WREA | EA-2        | 正         | 镍铬: Ni90%, Cr9.7%,<br>Si0.3%                           | 无        | ≈0.68                                   |
|                                   |      | (EA)        | 负         | 考铜: Ni43~44%,<br>Cu57~56%                              | 无        | ≈0.47                                   |
| 铁-康铜                              | WRTA | TA          | 正         | 铁: Fe100%                                              | 有        | 0.09~0.13                               |
|                                   |      |             | 负         | 康铜: Cu60%, Ni40%                                       | 无        | ≈0.45                                   |
| 铜-康铜                              |      |             | 正         | 铜: Cu100%                                              |          | ≈0.016                                  |
|                                   |      |             | 负         | 康铜: Cu60%, Ni40%                                       | 无        | ≈0.45                                   |
| 铂铑 <sub>30</sub> -铂铑 <sub>6</sub> | WRLL | LL-2        | 正         | 铂铑 <sub>30</sub> : Pt70%, Rh30%                        | 无        | ≈0.245                                  |
|                                   |      | (LL)        | 负         | 铂铑 <sub>6</sub> : Pt94%, Rh6%                          | 无        | ≈0.215                                  |

〔注1〕 加圆括号的是旧的分度号。

## 电 偶

电 偶 特 性 表

| 冷端 0°、热端<br>100°C 时热电势<br>毫伏 | 最高使用温度, °C |      | 允 许 误 差<br>°C                                                                                       | 主 要 优 缺 点                                                                        |
|------------------------------|------------|------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|                              | 连续使用       | 短期使用 |                                                                                                     |                                                                                  |
| 0.643                        | 1300       | 1600 | 〔注2〕<br>所测温度 $\leq 600^{\circ}\text{C}$ 时:<br>$\pm 3$<br>$> 600^{\circ}\text{C}$ 时:<br>$\pm 0.5\%t$ | 量程宽,重现性好,精度高,线质柔软;热电势小,不宜在还原性气氛中使用,价格贵(高温用)                                      |
| 4.10                         | 900        | 1200 | 所测温度 $\leq 400^{\circ}\text{C}$ 时:<br>$\pm 4$<br>$> 400^{\circ}\text{C}$ 时:<br>$\pm 1\%t$           | 热电势较大,线性关系好,精度较高,价格较便宜;在 $500^{\circ}\text{C}$ 以上只宜在氧化性、中性气氛中使用,线质较硬,均匀性差(使用极普遍) |
| 4.10                         | 900        | 1200 | 所测温度 $\leq 400^{\circ}\text{C}$ 时:<br>$\pm 4$<br>$> 400^{\circ}\text{C}$ 时:<br>$\pm 1\%t$           | 热电势较大,线性关系好,精度较高,价格较便宜;在 $500^{\circ}\text{C}$ 以上只宜在氧化性、中性气氛中使用,线质较硬,均匀性差(使用极普遍) |
| 6.95                         | 600        | 800  | 所测温度 $\leq 400^{\circ}\text{C}$ 时:<br>$\pm 4$<br>$> 400^{\circ}\text{C}$ 时:<br>$\pm 1\%t$           | 热电势很大,灵敏度高,价廉;量程较小,线质较硬,均匀性差,考铜易被氧化(可配用精度较差的仪表)                                  |
| 5.27                         | 600        | 800  | 所测温度 $\leq 400^{\circ}\text{C}$ 时:<br>$\pm 3$<br>$> 400^{\circ}\text{C}$ 时:<br>$\pm 0.75\%t$        | 热电势大,灵敏度高,价廉;易氧化(工业上使用极为普遍)                                                      |
| 4.277                        | 350        | 600  | $0\sim 300^{\circ}\text{C}$ 间; $\pm 2.3\sim 4.5$                                                    | 热电势较大,价廉,在低温范围内有好的热电势-温度关系;重现性差,测温上限低(一般用于测量超低温)                                 |
| 0.034                        | 1600       | 1800 | 所测温度 $\leq 600^{\circ}\text{C}$ 时:<br>$\pm 3$<br>$> 600^{\circ}\text{C}$ 时:<br>$\pm 0.5\%t$         | 使用温度上限高,性能稳定,精度高,冷端在 $40^{\circ}\text{C}$ 以下时不必修正;价格贵,热电势小,不宜在还原性气氛中使用(高温用)      |

〔注2〕  $t$  为热电偶工作端(热端)温度值( $^{\circ}\text{C}$ )。

## (2) 温度-毫伏对照表

A 铂铑<sub>10</sub>-铂热电偶分度表

分度号: LB-3

(自由端温度为0℃)

| 工作端<br>温度<br>C° | 0     | 1     | 2     | 3     | 4     | 5        | 6     | 7     | 8     | 9     |
|-----------------|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                 | 毫     |       |       |       |       | 伏 (绝对毫伏) |       |       |       |       |
| 0               | 0.000 | 0.005 | 0.011 | 0.016 | 0.022 | 0.028    | 0.033 | 0.039 | 0.044 | 0.050 |
| 10              | 0.056 | 0.061 | 0.067 | 0.073 | 0.078 | 0.084    | 0.090 | 0.096 | 0.102 | 0.107 |
| 20              | 0.113 | 0.119 | 0.125 | 0.131 | 0.137 | 0.143    | 0.149 | 0.155 | 0.161 | 0.167 |
| 30              | 0.173 | 0.179 | 0.185 | 0.191 | 0.198 | 0.204    | 0.210 | 0.216 | 0.222 | 0.229 |
| 40              | 0.235 | 0.241 | 0.247 | 0.254 | 0.260 | 0.266    | 0.273 | 0.279 | 0.286 | 0.292 |
| 50              | 0.299 | 0.305 | 0.312 | 0.318 | 0.325 | 0.331    | 0.338 | 0.344 | 0.351 | 0.357 |
| 60              | 0.364 | 0.371 | 0.377 | 0.384 | 0.391 | 0.397    | 0.404 | 0.411 | 0.418 | 0.425 |
| 70              | 0.431 | 0.438 | 0.445 | 0.452 | 0.459 | 0.466    | 0.473 | 0.479 | 0.486 | 0.493 |
| 80              | 0.500 | 0.507 | 0.514 | 0.521 | 0.528 | 0.535    | 0.543 | 0.550 | 0.557 | 0.564 |
| 90              | 0.571 | 0.578 | 0.585 | 0.593 | 0.600 | 0.607    | 0.614 | 0.621 | 0.629 | 0.636 |
| 100             | 0.643 | 0.651 | 0.658 | 0.665 | 0.673 | 0.680    | 0.687 | 0.694 | 0.702 | 0.709 |
| 110             | 0.717 | 0.724 | 0.732 | 0.739 | 0.747 | 0.754    | 0.762 | 0.769 | 0.777 | 0.784 |
| 120             | 0.792 | 0.800 | 0.807 | 0.815 | 0.823 | 0.830    | 0.838 | 0.845 | 0.853 | 0.861 |
| 130             | 0.869 | 0.876 | 0.884 | 0.892 | 0.900 | 0.907    | 0.915 | 0.923 | 0.931 | 0.939 |
| 140             | 0.946 | 0.954 | 0.962 | 0.970 | 0.978 | 0.986    | 0.994 | 1.002 | 1.009 | 1.017 |
| 150             | 1.025 | 1.033 | 1.041 | 1.049 | 1.057 | 1.065    | 1.073 | 1.081 | 1.089 | 1.097 |
| 160             | 1.106 | 1.114 | 1.122 | 1.130 | 1.138 | 1.146    | 1.154 | 1.162 | 1.170 | 1.179 |
| 170             | 1.187 | 1.195 | 1.203 | 1.211 | 1.220 | 1.228    | 1.236 | 1.244 | 1.253 | 1.261 |
| 180             | 1.269 | 1.277 | 1.286 | 1.294 | 1.302 | 1.311    | 1.319 | 1.327 | 1.336 | 1.344 |
| 190             | 1.352 | 1.361 | 1.369 | 1.377 | 1.386 | 1.394    | 1.403 | 1.411 | 1.419 | 1.428 |
| 200             | 1.436 | 1.445 | 1.453 | 1.462 | 1.470 | 1.479    | 1.487 | 1.496 | 1.504 | 1.513 |
| 210             | 1.521 | 1.530 | 1.538 | 1.547 | 1.555 | 1.564    | 1.573 | 1.581 | 1.590 | 1.598 |
| 220             | 1.607 | 1.615 | 1.624 | 1.633 | 1.641 | 1.650    | 1.659 | 1.667 | 1.676 | 1.685 |
| 230             | 1.693 | 1.702 | 1.710 | 1.719 | 1.728 | 1.736    | 1.745 | 1.754 | 1.763 | 1.771 |
| 240             | 1.780 | 1.788 | 1.797 | 1.805 | 1.814 | 1.823    | 1.832 | 1.840 | 1.849 | 1.858 |
| 250             | 1.867 | 1.876 | 1.884 | 1.893 | 1.902 | 1.911    | 1.920 | 1.929 | 1.937 | 1.946 |
| 260             | 1.955 | 1.964 | 1.973 | 1.982 | 1.991 | 2.000    | 2.008 | 2.017 | 2.026 | 2.035 |
| 270             | 2.044 | 2.053 | 2.062 | 2.071 | 2.080 | 2.089    | 2.098 | 2.107 | 2.116 | 2.125 |
| 280             | 2.134 | 2.143 | 2.152 | 2.161 | 2.170 | 2.179    | 2.188 | 2.197 | 2.206 | 2.215 |
| 290             | 2.224 | 2.233 | 2.242 | 2.251 | 2.260 | 2.270    | 2.279 | 2.288 | 2.297 | 2.306 |
| 300             | 2.315 | 2.324 | 2.333 | 2.342 | 2.352 | 2.361    | 2.370 | 2.379 | 2.388 | 2.397 |
| 310             | 2.407 | 2.416 | 2.425 | 2.434 | 2.443 | 2.452    | 2.462 | 2.471 | 2.480 | 2.489 |
| 320             | 2.498 | 2.508 | 2.517 | 2.526 | 2.535 | 2.545    | 2.554 | 2.563 | 2.572 | 2.582 |
| 330             | 2.591 | 2.600 | 2.609 | 2.619 | 2.628 | 2.637    | 2.647 | 2.656 | 2.665 | 2.675 |
| 340             | 2.684 | 2.693 | 2.703 | 2.712 | 2.721 | 2.730    | 2.740 | 2.749 | 2.759 | 2.768 |

8-3(2) A 续

| 工作端<br>温度<br>°C | 0          | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
|-----------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                 | 毫 伏 (绝对毫伏) |       |       |       |       |       |       |       |       |       |
| 350             | 2.777      | 2.787 | 2.796 | 2.805 | 2.815 | 2.824 | 2.833 | 2.843 | 2.852 | 2.862 |
| 360             | 2.871      | 2.880 | 2.890 | 2.899 | 2.909 | 2.918 | 2.928 | 2.937 | 2.946 | 2.956 |
| 370             | 2.965      | 2.975 | 2.984 | 2.994 | 3.003 | 3.013 | 3.022 | 3.031 | 3.041 | 3.050 |
| 380             | 3.060      | 3.069 | 3.079 | 3.088 | 3.098 | 3.107 | 3.117 | 3.126 | 3.136 | 3.145 |
| 390             | 3.155      | 3.164 | 3.174 | 3.183 | 3.193 | 3.202 | 3.212 | 3.221 | 3.231 | 3.240 |
| 400             | 3.250      | 3.260 | 3.269 | 3.279 | 3.288 | 3.298 | 3.307 | 3.317 | 3.326 | 3.336 |
| 410             | 3.346      | 3.355 | 3.365 | 3.374 | 3.384 | 3.393 | 3.403 | 3.413 | 3.422 | 3.432 |
| 420             | 3.441      | 3.451 | 3.461 | 3.470 | 3.480 | 3.489 | 3.499 | 3.509 | 3.518 | 3.528 |
| 430             | 3.538      | 3.547 | 3.557 | 3.566 | 3.576 | 3.586 | 3.595 | 3.605 | 3.615 | 3.624 |
| 440             | 3.634      | 3.644 | 3.653 | 3.663 | 3.673 | 3.682 | 3.692 | 3.702 | 3.711 | 3.721 |
| 450             | 3.731      | 3.740 | 3.750 | 3.760 | 3.770 | 3.779 | 3.789 | 3.799 | 3.808 | 3.818 |
| 460             | 3.828      | 3.838 | 3.847 | 3.857 | 3.867 | 3.877 | 3.886 | 3.896 | 3.906 | 3.916 |
| 470             | 3.925      | 3.935 | 3.945 | 3.955 | 3.964 | 3.974 | 3.984 | 3.994 | 4.003 | 4.013 |
| 480             | 4.023      | 4.033 | 4.043 | 4.052 | 4.062 | 4.072 | 4.082 | 4.092 | 4.102 | 4.111 |
| 490             | 4.121      | 4.131 | 4.141 | 4.151 | 4.161 | 4.170 | 4.180 | 4.190 | 4.200 | 4.210 |
| 500             | 4.220      | 4.229 | 4.239 | 4.249 | 4.259 | 4.269 | 4.279 | 4.289 | 4.299 | 4.309 |
| 510             | 4.318      | 4.328 | 4.338 | 4.348 | 4.358 | 4.368 | 4.378 | 4.388 | 4.398 | 4.408 |
| 520             | 4.418      | 4.427 | 4.437 | 4.447 | 4.457 | 4.467 | 4.477 | 4.487 | 4.497 | 4.507 |
| 530             | 4.517      | 4.527 | 4.537 | 4.547 | 4.557 | 4.567 | 4.577 | 4.587 | 4.597 | 4.607 |
| 540             | 4.617      | 4.627 | 4.637 | 4.647 | 4.657 | 4.667 | 4.677 | 4.687 | 4.697 | 4.707 |
| 550             | 4.717      | 4.727 | 4.737 | 4.747 | 4.757 | 4.767 | 4.777 | 4.787 | 4.797 | 4.807 |
| 560             | 4.817      | 4.827 | 4.838 | 4.848 | 4.858 | 4.868 | 4.878 | 4.888 | 4.898 | 4.908 |
| 570             | 4.918      | 4.928 | 4.938 | 4.949 | 4.959 | 4.969 | 4.979 | 4.989 | 4.999 | 5.009 |
| 580             | 5.019      | 5.030 | 5.040 | 5.050 | 5.060 | 5.070 | 5.080 | 5.090 | 5.101 | 5.111 |
| 590             | 5.121      | 5.131 | 5.141 | 5.151 | 5.162 | 5.172 | 5.182 | 5.192 | 5.202 | 5.212 |
| 600             | 5.222      | 5.232 | 5.242 | 5.252 | 5.263 | 5.273 | 5.283 | 5.293 | 5.304 | 5.314 |
| 610             | 5.324      | 5.334 | 5.344 | 5.355 | 5.365 | 5.375 | 5.386 | 5.396 | 5.406 | 5.416 |
| 620             | 5.427      | 5.437 | 5.447 | 5.457 | 5.468 | 5.478 | 5.488 | 5.499 | 5.509 | 5.519 |
| 630             | 5.530      | 5.540 | 5.550 | 5.561 | 5.571 | 5.581 | 5.591 | 5.602 | 5.612 | 5.622 |
| 640             | 5.633      | 5.643 | 5.653 | 5.664 | 5.674 | 5.684 | 5.695 | 5.705 | 5.715 | 5.725 |
| 650             | 5.735      | 5.745 | 5.756 | 5.766 | 5.776 | 5.787 | 5.797 | 5.808 | 5.818 | 5.828 |
| 660             | 5.839      | 5.849 | 5.859 | 5.870 | 5.880 | 5.891 | 5.901 | 5.911 | 5.922 | 5.932 |
| 670             | 5.943      | 5.953 | 5.964 | 5.974 | 5.984 | 5.995 | 6.005 | 6.016 | 6.026 | 6.036 |
| 680             | 6.046      | 6.056 | 6.067 | 6.077 | 6.088 | 6.098 | 6.109 | 6.119 | 6.130 | 6.140 |
| 690             | 6.151      | 6.161 | 6.172 | 6.182 | 6.193 | 6.203 | 6.214 | 6.224 | 6.235 | 6.245 |
| 700             | 6.256      | 6.266 | 6.277 | 6.287 | 6.298 | 6.308 | 6.319 | 6.329 | 6.340 | 6.351 |
| 710             | 6.361      | 6.372 | 6.382 | 6.392 | 6.402 | 6.413 | 6.424 | 6.434 | 6.445 | 6.455 |
| 720             | 6.466      | 6.476 | 6.487 | 6.498 | 6.508 | 6.519 | 6.529 | 6.540 | 6.551 | 6.561 |
| 730             | 6.572      | 6.583 | 6.593 | 6.604 | 6.614 | 6.624 | 6.635 | 6.645 | 6.656 | 6.667 |
| 740             | 6.677      | 6.688 | 6.699 | 6.709 | 6.720 | 6.731 | 6.741 | 6.752 | 6.763 | 6.773 |

8-3(2)A 续

| 工作端<br>温 度<br>℃ | 0          | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      |
|-----------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                 | 毫 伏 (绝对毫伏) |        |        |        |        |        |        |        |        |        |
| 750             | 6.784      | 6.795  | 6.805  | 6.816  | 6.827  | 6.838  | 6.848  | 6.859  | 6.870  | 6.880  |
| 760             | 6.891      | 6.902  | 6.913  | 6.923  | 6.934  | 6.945  | 6.956  | 6.966  | 6.977  | 6.988  |
| 770             | 6.999      | 7.009  | 7.020  | 7.031  | 7.041  | 7.051  | 7.062  | 7.073  | 7.084  | 7.095  |
| 780             | 7.105      | 7.116  | 7.127  | 7.138  | 7.149  | 7.159  | 7.170  | 7.181  | 7.192  | 7.203  |
| 790             | 7.213      | 7.224  | 7.235  | 7.246  | 7.257  | 7.268  | 7.279  | 7.289  | 7.300  | 7.311  |
| 800             | 7.322      | 7.333  | 7.344  | 7.355  | 7.365  | 7.376  | 7.387  | 7.397  | 7.408  | 7.419  |
| 810             | 7.430      | 7.441  | 7.452  | 7.462  | 7.473  | 7.484  | 7.495  | 7.506  | 7.517  | 7.528  |
| 820             | 7.539      | 7.550  | 7.561  | 7.572  | 7.583  | 7.594  | 7.605  | 7.615  | 7.626  | 7.637  |
| 830             | 7.648      | 7.659  | 7.670  | 7.681  | 7.692  | 7.703  | 7.714  | 7.724  | 7.735  | 7.746  |
| 840             | 7.757      | 7.768  | 7.779  | 7.790  | 7.801  | 7.812  | 7.823  | 7.834  | 7.845  | 7.856  |
| 850             | 7.867      | 7.878  | 7.889  | 7.901  | 7.912  | 7.923  | 7.934  | 7.945  | 7.956  | 7.967  |
| 860             | 7.978      | 7.989  | 8.000  | 8.011  | 8.022  | 8.033  | 8.043  | 8.054  | 8.066  | 8.077  |
| 870             | 8.088      | 8.099  | 8.110  | 8.121  | 8.132  | 8.143  | 8.154  | 8.166  | 8.177  | 8.188  |
| 880             | 8.199      | 8.210  | 8.221  | 8.232  | 8.244  | 8.255  | 8.266  | 8.277  | 8.288  | 8.299  |
| 890             | 8.310      | 8.322  | 8.333  | 8.344  | 8.355  | 8.366  | 8.377  | 8.388  | 8.399  | 8.410  |
| 900             | 8.421      | 8.433  | 8.444  | 8.455  | 8.466  | 8.477  | 8.489  | 8.500  | 8.511  | 8.522  |
| 910             | 8.534      | 8.545  | 8.556  | 8.567  | 8.579  | 8.590  | 8.601  | 8.612  | 8.624  | 8.635  |
| 920             | 8.646      | 8.657  | 8.668  | 8.679  | 8.690  | 8.702  | 8.713  | 8.724  | 8.735  | 8.747  |
| 930             | 8.758      | 8.769  | 8.781  | 8.792  | 8.803  | 8.815  | 8.826  | 8.837  | 8.849  | 8.860  |
| 940             | 8.871      | 8.883  | 8.894  | 8.905  | 8.917  | 8.928  | 8.939  | 8.951  | 8.962  | 8.974  |
| 950             | 8.985      | 8.996  | 9.007  | 9.018  | 9.029  | 9.041  | 9.052  | 9.064  | 9.075  | 9.086  |
| 960             | 9.098      | 9.109  | 9.121  | 9.132  | 9.144  | 9.155  | 9.166  | 9.178  | 9.189  | 9.201  |
| 970             | 9.212      | 9.223  | 9.235  | 9.247  | 9.258  | 9.269  | 9.281  | 9.292  | 9.303  | 9.314  |
| 980             | 9.326      | 9.337  | 9.349  | 9.360  | 9.372  | 9.383  | 9.395  | 9.406  | 9.418  | 9.429  |
| 990             | 9.441      | 9.452  | 9.464  | 9.475  | 9.487  | 9.498  | 9.510  | 9.521  | 9.533  | 9.545  |
| 1000            | 9.556      | 9.568  | 9.579  | 9.591  | 9.602  | 9.613  | 9.624  | 9.636  | 9.648  | 9.659  |
| 1010            | 9.671      | 9.682  | 9.694  | 9.705  | 9.717  | 9.729  | 9.740  | 9.752  | 9.764  | 9.775  |
| 1020            | 9.787      | 9.798  | 9.810  | 9.822  | 9.833  | 9.845  | 9.856  | 9.868  | 9.880  | 9.891  |
| 1030            | 9.902      | 9.914  | 9.925  | 9.937  | 9.949  | 9.960  | 9.972  | 9.984  | 9.995  | 10.007 |
| 1040            | 10.019     | 10.030 | 10.042 | 10.054 | 10.066 | 10.077 | 10.089 | 10.101 | 10.112 | 10.124 |
| 1050            | 10.136     | 10.147 | 10.159 | 10.171 | 10.183 | 10.194 | 10.205 | 10.217 | 10.229 | 10.240 |
| 1060            | 10.252     | 10.264 | 10.276 | 10.287 | 10.299 | 10.311 | 10.323 | 10.334 | 10.346 | 10.358 |
| 1070            | 10.370     | 10.382 | 10.393 | 10.405 | 10.417 | 10.429 | 10.441 | 10.452 | 10.464 | 10.476 |
| 1080            | 10.488     | 10.500 | 10.511 | 10.523 | 10.535 | 10.547 | 10.559 | 10.570 | 10.582 | 10.594 |
| 1090            | 10.605     | 10.617 | 10.629 | 10.640 | 10.652 | 10.664 | 10.676 | 10.688 | 10.700 | 10.711 |
| 1100            | 10.723     | 10.735 | 10.747 | 10.759 | 10.771 | 10.783 | 10.794 | 10.806 | 10.818 | 10.830 |
| 1110            | 10.842     | 10.854 | 10.866 | 10.878 | 10.889 | 10.901 | 10.913 | 10.925 | 10.937 | 10.949 |
| 1120            | 10.961     | 10.973 | 10.985 | 10.996 | 11.008 | 11.020 | 11.032 | 11.044 | 11.056 | 11.068 |
| 1130            | 11.080     | 11.092 | 11.104 | 11.115 | 11.127 | 11.139 | 11.151 | 11.163 | 11.175 | 11.187 |
| 1140            | 11.198     | 11.210 | 11.222 | 11.234 | 11.246 | 11.258 | 11.270 | 11.281 | 11.293 | 11.305 |

## E 3(2) A. 续

| 工作端<br>温 度<br>°C | 0      | 1      | 2      | 3      | 4        | 5      | 6      | 7      | 8      | 9      |
|------------------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
|                  | 毫      |        |        |        | 伏 (绝对毫伏) |        |        |        |        |        |
| 1150             | 11.317 | 11.329 | 11.341 | 11.353 | 11.365   | 11.377 | 11.389 | 11.401 | 11.413 | 11.425 |
| 1160             | 11.437 | 11.449 | 11.461 | 11.473 | 11.485   | 11.497 | 11.509 | 11.521 | 11.533 | 11.545 |
| 1170             | 11.556 | 11.568 | 11.580 | 11.592 | 11.604   | 11.616 | 11.628 | 11.640 | 11.652 | 11.664 |
| 1180             | 11.676 | 11.688 | 11.699 | 11.711 | 11.723   | 11.735 | 11.747 | 11.759 | 11.771 | 11.783 |
| 1190             | 11.795 | 11.807 | 11.819 | 11.831 | 11.843   | 11.855 | 11.867 | 11.879 | 11.891 | 11.903 |
| 1200             | 11.915 | 11.927 | 11.939 | 11.951 | 11.963   | 11.975 | 11.987 | 11.999 | 12.011 | 12.023 |
| 1210             | 12.035 | 12.047 | 12.059 | 12.071 | 12.083   | 12.095 | 12.107 | 12.119 | 12.131 | 12.143 |
| 1220             | 12.155 | 12.167 | 12.180 | 12.192 | 12.204   | 12.216 | 12.228 | 12.240 | 12.252 | 12.263 |
| 1230             | 12.275 | 12.287 | 12.299 | 12.311 | 12.323   | 12.335 | 12.347 | 12.359 | 12.371 | 12.383 |
| 1240             | 12.395 | 12.407 | 12.419 | 12.431 | 12.443   | 12.455 | 12.467 | 12.479 | 12.491 | 12.503 |
| 1250             | 12.515 | 12.527 | 12.539 | 12.552 | 12.564   | 12.576 | 12.588 | 12.600 | 12.612 | 12.624 |
| 1260             | 12.636 | 12.648 | 12.660 | 12.672 | 12.684   | 12.696 | 12.708 | 12.720 | 12.732 | 12.744 |
| 1270             | 12.756 | 12.768 | 12.780 | 12.792 | 12.804   | 12.816 | 12.828 | 12.840 | 12.851 | 12.863 |
| 1280             | 12.875 | 12.887 | 12.899 | 12.911 | 12.923   | 12.935 | 12.947 | 12.959 | 12.971 | 12.983 |
| 1290             | 12.996 | 13.008 | 13.020 | 13.032 | 13.044   | 13.056 | 13.068 | 13.080 | 13.092 | 13.104 |
| 1300             | 13.116 | 13.128 | 13.140 | 13.152 | 13.164   | 13.176 | 13.188 | 13.200 | 13.212 | 13.224 |
| 1310             | 13.236 | 13.248 | 13.260 | 13.272 | 13.284   | 13.296 | 13.308 | 13.320 | 13.332 | 13.344 |
| 1320             | 13.356 | 13.368 | 13.380 | 13.392 | 13.404   | 13.415 | 13.427 | 13.439 | 13.451 | 13.463 |
| 1330             | 13.475 | 13.487 | 13.499 | 13.511 | 13.523   | 13.535 | 13.547 | 13.559 | 13.571 | 13.583 |
| 1340             | 13.595 | 13.607 | 13.619 | 13.631 | 13.643   | 13.655 | 13.667 | 13.679 | 13.691 | 13.703 |
| 1350             | 13.715 | 13.727 | 13.739 | 13.751 | 13.763   | 13.775 | 13.787 | 13.799 | 13.811 | 13.823 |
| 1360             | 13.835 | 13.847 | 13.859 | 13.871 | 13.883   | 13.895 | 13.907 | 13.919 | 13.931 | 13.943 |
| 1370             | 13.955 | 13.967 | 13.979 | 13.990 | 14.002   | 14.014 | 14.026 | 14.038 | 14.050 | 14.062 |
| 1380             | 14.074 | 14.086 | 14.098 | 14.109 | 14.121   | 14.133 | 14.145 | 14.157 | 14.169 | 14.181 |
| 1390             | 14.193 | 14.205 | 14.217 | 14.229 | 14.241   | 14.253 | 14.265 | 14.277 | 14.289 | 14.301 |
| 1400             | 14.313 | 14.325 | 14.337 | 14.349 | 14.361   | 14.373 | 14.385 | 14.397 | 14.409 | 14.421 |
| 1410             | 14.433 | 14.445 | 14.457 | 14.469 | 14.480   | 14.492 | 14.504 | 14.516 | 14.528 | 14.540 |
| 1420             | 14.552 | 14.564 | 14.576 | 14.588 | 14.599   | 14.611 | 14.623 | 14.635 | 14.647 | 14.659 |
| 1430             | 14.671 | 14.683 | 14.695 | 14.707 | 14.719   | 14.730 | 14.742 | 14.754 | 14.766 | 14.778 |
| 1440             | 14.790 | 14.802 | 14.814 | 14.826 | 14.838   | 14.850 | 14.862 | 14.874 | 14.886 | 14.898 |
| 1450             | 14.910 | 14.921 | 14.933 | 14.945 | 14.957   | 14.969 | 14.981 | 14.993 | 15.005 | 15.017 |
| 1460             | 15.029 | 15.041 | 15.053 | 15.065 | 15.077   | 15.088 | 15.100 | 15.112 | 15.124 | 15.136 |
| 1470             | 15.148 | 15.160 | 15.172 | 15.184 | 15.195   | 15.207 | 15.219 | 15.230 | 15.242 | 15.254 |
| 1480             | 15.266 | 15.278 | 15.290 | 15.302 | 15.314   | 15.326 | 15.338 | 15.350 | 15.361 | 15.373 |
| 1490             | 15.385 | 15.397 | 15.409 | 15.421 | 15.433   | 15.445 | 15.457 | 15.469 | 15.481 | 15.492 |
| 1500             | 15.504 | 15.516 | 15.528 | 15.540 | 15.552   | 15.564 | 15.576 | 15.588 | 15.599 | 15.611 |
| 1510             | 15.623 | 15.635 | 15.647 | 15.659 | 15.671   | 15.683 | 15.695 | 15.706 | 15.718 | 15.730 |
| 1520             | 15.742 | 15.754 | 15.766 | 15.778 | 15.790   | 15.802 | 15.813 | 15.824 | 15.836 | 15.848 |
| 1530             | 15.860 | 15.872 | 15.884 | 15.895 | 15.907   | 15.919 | 15.931 | 15.943 | 15.955 | 15.967 |
| 1540             | 15.979 | 15.990 | 16.002 | 16.014 | 16.026   | 16.038 | 16.050 | 16.062 | 16.073 | 16.085 |

8-3(2) A 续

| 工作端<br>温 度<br>°C | 0      | 1      | 2      | 3      | 4        | 5      | 6      | 7      | 8      | 9      |
|------------------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
|                  | 毫      |        |        |        | 伏 (绝对毫伏) |        |        |        |        |        |
| 1550             | 16.097 | 16.109 | 16.121 | 16.133 | 16.144   | 16.156 | 16.168 | 16.180 | 16.192 | 16.204 |
| 1560             | 16.216 | 16.227 | 16.239 | 16.251 | 16.263   | 16.275 | 16.287 | 16.298 | 16.310 | 16.322 |
| 1570             | 16.334 | 16.346 | 16.358 | 16.369 | 16.381   | 16.393 | 16.404 | 16.416 | 16.428 | 16.439 |
| 1580             | 16.451 | 16.463 | 16.475 | 16.487 | 16.499   | 16.510 | 16.522 | 16.534 | 16.546 | 16.558 |
| 1590             | 16.569 | 16.581 | 16.593 | 16.605 | 16.617   | 16.629 | 16.640 | 16.652 | 16.664 | 16.676 |
| 1600             | 16.688 |        |        |        |          |        |        |        |        |        |

## B 镍铬-镍硅(镍铬-镍铝)热电偶分度表

分度号: EU-2

(自由端温度为0°C)

| 工作端<br>温 度<br>°C | 0     | 1     | 2     | 3     | 4        | 5     | 6     | 7     | 8     | 9     |
|------------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                  | 毫     |       |       |       | 伏 (绝对毫伏) |       |       |       |       |       |
| -200             | -5.75 |       |       |       |          |       |       |       |       |       |
| -150             | -4.81 |       |       |       |          |       |       |       |       |       |
| -100             | -3.49 |       |       |       |          |       |       |       |       |       |
| -50              | -1.86 |       |       |       |          |       |       |       |       |       |
| -40              | -1.50 | -1.54 | -1.57 | -1.60 | -1.64    | -1.68 | -1.72 | -1.75 | -1.79 | -1.82 |
| -30              | -1.14 | -1.18 | -1.21 | -1.25 | -1.28    | -1.32 | -1.36 | -1.40 | -1.43 | -1.46 |
| -20              | -0.77 | -0.81 | -0.84 | -0.88 | -0.92    | -0.96 | -0.99 | -1.03 | -1.07 | -1.10 |
| -10              | -0.39 | -0.43 | -0.47 | -0.51 | -0.55    | -0.59 | -0.62 | -0.66 | -0.70 | -0.74 |
| -0               | -0.00 | -0.04 | -0.08 | -0.12 | -0.16    | -0.20 | -0.23 | -0.27 | -0.31 | -0.35 |
| +0               | 0.00  | 0.04  | 0.08  | 0.12  | 0.16     | 0.20  | 0.24  | 0.28  | 0.32  | 0.36  |
| 10               | 0.40  | 0.44  | 0.48  | 0.52  | 0.56     | 0.60  | 0.64  | 0.68  | 0.72  | 0.76  |
| 20               | 0.80  | 0.84  | 0.88  | 0.92  | 0.96     | 1.00  | 1.04  | 1.08  | 1.12  | 1.16  |
| 30               | 1.20  | 1.24  | 1.28  | 1.32  | 1.36     | 1.41  | 1.45  | 1.49  | 1.53  | 1.57  |
| 40               | 1.61  | 1.65  | 1.69  | 1.73  | 1.77     | 1.82  | 1.86  | 1.90  | 1.94  | 1.98  |
| 50               | 2.02  | 2.06  | 2.10  | 2.14  | 2.18     | 2.23  | 2.27  | 2.31  | 2.35  | 2.39  |
| 60               | 2.43  | 2.47  | 2.51  | 2.56  | 2.60     | 2.64  | 2.68  | 2.72  | 2.77  | 2.81  |
| 70               | 2.85  | 2.89  | 2.93  | 2.97  | 3.01     | 3.06  | 3.10  | 3.14  | 3.18  | 3.22  |
| 80               | 3.26  | 3.30  | 3.34  | 3.39  | 3.43     | 3.47  | 3.51  | 3.55  | 3.60  | 3.64  |
| 90               | 3.68  | 3.72  | 3.76  | 3.81  | 3.85     | 3.89  | 3.93  | 3.97  | 4.02  | 4.06  |
| 100              | 4.10  | 4.14  | 4.18  | 4.22  | 4.26     | 4.31  | 4.35  | 4.39  | 4.43  | 4.47  |
| 110              | 4.51  | 4.55  | 4.59  | 4.63  | 4.67     | 4.72  | 4.76  | 4.80  | 4.84  | 4.88  |
| 120              | 4.92  | 4.96  | 5.00  | 5.04  | 5.08     | 5.13  | 5.17  | 5.21  | 4.25  | 5.29  |
| 130              | 5.33  | 5.37  | 5.41  | 5.45  | 5.49     | 5.53  | 5.57  | 5.61  | 5.65  | 5.69  |
| 140              | 5.73  | 5.77  | 5.81  | 5.85  | 5.89     | 5.93  | 5.97  | 6.01  | 6.05  | 6.09  |

8-3(2)B 续

| 工作端<br>温度<br>°C | 0     | 1     | 2     | 3     | 4        | 5     | 6     | 7     | 8     | 9     |
|-----------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                 | 毫     |       |       |       | 伏 (绝对毫伏) |       |       |       |       |       |
| 150             | 6.13  | 6.17  | 6.21  | 6.25  | 6.29     | 6.33  | 6.37  | 6.41  | 6.45  | 6.49  |
| 160             | 6.53  | 6.57  | 6.61  | 6.65  | 6.69     | 6.73  | 6.77  | 6.81  | 6.85  | 6.89  |
| 170             | 6.93  | 6.97  | 7.01  | 7.05  | 7.09     | 7.13  | 7.17  | 7.21  | 7.25  | 7.29  |
| 180             | 7.33  | 7.37  | 7.41  | 7.45  | 7.49     | 7.53  | 7.57  | 7.61  | 7.65  | 7.69  |
| 190             | 7.73  | 7.77  | 7.81  | 7.85  | 7.89     | 7.93  | 7.97  | 8.01  | 8.05  | 8.09  |
| 200             | 8.13  | 8.17  | 8.21  | 8.25  | 8.29     | 8.33  | 8.37  | 8.41  | 8.45  | 8.49  |
| 210             | 8.53  | 8.57  | 8.61  | 8.65  | 8.69     | 8.73  | 8.77  | 8.81  | 8.85  | 8.89  |
| 220             | 8.93  | 8.97  | 9.01  | 9.06  | 9.10     | 9.14  | 9.18  | 9.22  | 9.26  | 9.30  |
| 230             | 9.34  | 9.38  | 9.42  | 9.46  | 9.50     | 9.54  | 9.58  | 9.62  | 9.66  | 9.70  |
| 240             | 9.74  | 9.78  | 9.82  | 9.86  | 9.90     | 9.95  | 9.99  | 10.03 | 10.07 | 10.11 |
| 250             | 10.15 | 10.19 | 10.23 | 10.27 | 10.31    | 10.35 | 10.40 | 10.44 | 10.48 | 10.52 |
| 260             | 10.56 | 10.60 | 10.64 | 10.68 | 10.72    | 10.77 | 10.81 | 10.85 | 10.89 | 10.93 |
| 270             | 10.97 | 11.01 | 11.05 | 11.09 | 11.13    | 11.18 | 11.22 | 11.26 | 11.30 | 11.34 |
| 280             | 11.38 | 11.42 | 11.46 | 11.51 | 11.55    | 11.59 | 11.63 | 11.67 | 11.72 | 11.76 |
| 290             | 11.80 | 11.84 | 11.88 | 11.92 | 11.96    | 12.01 | 12.05 | 12.09 | 12.13 | 12.17 |
| 300             | 12.21 | 12.25 | 12.29 | 12.33 | 12.37    | 12.42 | 12.46 | 12.50 | 12.54 | 12.58 |
| 310             | 12.62 | 12.66 | 12.70 | 12.75 | 12.79    | 12.83 | 12.87 | 12.91 | 12.96 | 13.00 |
| 320             | 13.04 | 13.08 | 13.12 | 13.16 | 13.20    | 13.25 | 13.29 | 13.33 | 13.37 | 13.41 |
| 330             | 13.45 | 13.49 | 13.53 | 13.58 | 13.62    | 13.66 | 13.70 | 13.74 | 13.79 | 13.83 |
| 340             | 13.87 | 13.91 | 13.95 | 14.00 | 14.04    | 14.08 | 14.12 | 14.16 | 14.21 | 14.25 |
| 350             | 14.30 | 14.34 | 14.38 | 14.43 | 14.47    | 14.51 | 14.55 | 14.59 | 14.64 | 14.68 |
| 360             | 14.72 | 14.76 | 14.80 | 14.85 | 14.89    | 14.93 | 14.97 | 15.01 | 15.06 | 15.10 |
| 370             | 15.14 | 15.18 | 15.22 | 15.27 | 15.31    | 15.35 | 15.39 | 15.43 | 15.48 | 15.52 |
| 380             | 15.56 | 15.60 | 15.64 | 15.69 | 15.73    | 15.77 | 15.81 | 15.85 | 15.90 | 15.94 |
| 390             | 15.98 | 16.02 | 16.06 | 16.11 | 16.15    | 16.19 | 16.23 | 16.27 | 16.32 | 16.36 |
| 400             | 16.40 | 16.44 | 16.49 | 16.53 | 16.57    | 16.62 | 16.66 | 16.70 | 16.74 | 16.79 |
| 410             | 16.83 | 16.87 | 16.91 | 16.96 | 17.00    | 17.04 | 17.08 | 17.12 | 17.17 | 17.21 |
| 420             | 17.25 | 17.29 | 17.33 | 17.38 | 17.42    | 17.46 | 17.50 | 17.45 | 17.59 | 17.63 |
| 430             | 17.67 | 17.71 | 17.75 | 17.79 | 17.84    | 17.88 | 17.92 | 17.96 | 18.01 | 18.05 |
| 440             | 18.09 | 18.13 | 18.17 | 18.22 | 18.26    | 18.30 | 18.34 | 18.38 | 18.43 | 18.47 |
| 450             | 18.51 | 18.55 | 18.60 | 18.64 | 18.68    | 18.73 | 18.77 | 18.81 | 18.85 | 18.90 |
| 460             | 18.94 | 18.98 | 19.03 | 19.07 | 19.11    | 19.16 | 19.20 | 19.24 | 19.28 | 19.33 |
| 470             | 19.37 | 19.41 | 19.45 | 19.50 | 19.54    | 19.58 | 19.62 | 19.66 | 19.71 | 19.75 |
| 480             | 19.79 | 19.83 | 19.88 | 19.92 | 19.96    | 20.01 | 20.05 | 20.09 | 20.13 | 20.18 |
| 490             | 20.22 | 20.26 | 20.31 | 20.35 | 20.39    | 20.44 | 20.48 | 20.52 | 20.56 | 20.61 |
| 500             | 20.65 | 20.69 | 20.74 | 20.78 | 20.82    | 20.87 | 20.91 | 20.95 | 20.99 | 21.04 |
| 510             | 21.08 | 21.12 | 21.16 | 21.21 | 21.25    | 21.29 | 21.33 | 21.37 | 21.42 | 21.46 |
| 520             | 21.50 | 21.54 | 21.59 | 21.63 | 21.67    | 21.72 | 21.76 | 21.80 | 21.84 | 21.89 |
| 530             | 21.93 | 21.97 | 22.01 | 22.06 | 22.10    | 22.14 | 22.18 | 22.22 | 22.27 | 22.31 |
| 540             | 22.35 | 22.39 | 22.44 | 22.48 | 22.52    | 22.57 | 22.61 | 22.65 | 22.69 | 22.74 |

8-3(2) B 续

| 工作端<br>温 度<br>°C | 0     | 1     | 2     | 3     | 4        | 5     | 6     | 7     | 8     | 9     |
|------------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                  | 毫     |       |       |       | 伏 (绝对毫伏) |       |       |       |       |       |
| 550              | 22.78 | 22.82 | 22.87 | 22.91 | 22.95    | 23.00 | 23.04 | 23.08 | 23.12 | 23.17 |
| 560              | 23.21 | 23.25 | 23.29 | 23.34 | 23.38    | 23.42 | 23.46 | 23.50 | 23.55 | 23.59 |
| 570              | 23.63 | 23.67 | 23.71 | 23.75 | 23.79    | 23.84 | 23.88 | 23.92 | 23.96 | 24.01 |
| 580              | 24.05 | 24.09 | 24.14 | 24.18 | 24.22    | 24.27 | 24.31 | 24.35 | 24.39 | 24.44 |
| 590              | 24.48 | 24.52 | 24.56 | 24.61 | 24.65    | 24.69 | 24.73 | 24.77 | 24.82 | 24.86 |
| 600              | 24.90 | 24.94 | 24.99 | 25.03 | 25.07    | 25.12 | 25.15 | 25.19 | 25.23 | 25.27 |
| 610              | 25.32 | 25.37 | 25.41 | 25.46 | 25.50    | 25.54 | 25.58 | 25.62 | 25.67 | 25.71 |
| 620              | 25.75 | 25.79 | 25.84 | 25.88 | 25.92    | 25.97 | 26.01 | 26.05 | 26.09 | 26.14 |
| 630              | 26.18 | 26.22 | 26.26 | 26.31 | 26.35    | 26.39 | 26.43 | 26.47 | 26.52 | 26.56 |
| 640              | 26.60 | 26.64 | 26.69 | 26.73 | 26.77    | 26.82 | 26.86 | 26.90 | 26.94 | 26.99 |
| 650              | 27.03 | 27.07 | 27.11 | 27.16 | 27.20    | 27.24 | 27.28 | 27.32 | 27.37 | 27.41 |
| 660              | 27.45 | 27.49 | 27.53 | 27.57 | 27.62    | 27.66 | 27.70 | 27.74 | 27.79 | 27.83 |
| 670              | 27.87 | 27.91 | 27.95 | 28.00 | 28.04    | 28.08 | 28.12 | 28.16 | 28.21 | 28.25 |
| 680              | 28.29 | 28.33 | 28.38 | 28.42 | 28.46    | 28.50 | 28.54 | 28.58 | 28.62 | 28.67 |
| 690              | 28.71 | 28.75 | 28.79 | 28.84 | 28.88    | 28.92 | 28.96 | 29.00 | 29.05 | 29.09 |
| 700              | 29.13 | 29.17 | 29.21 | 29.26 | 29.30    | 29.34 | 29.38 | 29.42 | 29.47 | 29.51 |
| 710              | 29.55 | 29.59 | 29.63 | 29.68 | 29.72    | 29.76 | 29.80 | 29.84 | 29.89 | 29.93 |
| 720              | 29.97 | 30.01 | 30.05 | 30.10 | 30.14    | 30.18 | 30.22 | 30.26 | 30.31 | 30.35 |
| 730              | 30.39 | 30.43 | 30.47 | 30.52 | 30.56    | 30.60 | 30.64 | 30.68 | 30.73 | 30.77 |
| 740              | 30.81 | 30.85 | 30.89 | 30.93 | 30.97    | 31.02 | 31.06 | 31.10 | 31.14 | 31.18 |
| 750              | 31.22 | 31.26 | 31.30 | 31.35 | 31.39    | 31.43 | 31.47 | 31.51 | 31.56 | 31.60 |
| 760              | 31.64 | 31.68 | 31.72 | 31.77 | 31.81    | 31.85 | 31.89 | 31.93 | 31.98 | 32.02 |
| 770              | 32.06 | 32.10 | 32.14 | 32.18 | 32.22    | 32.26 | 32.30 | 32.34 | 32.38 | 32.42 |
| 780              | 32.46 | 32.50 | 32.54 | 32.59 | 32.63    | 32.67 | 32.71 | 32.75 | 32.80 | 32.84 |
| 790              | 32.87 | 32.91 | 32.95 | 33.00 | 33.04    | 33.09 | 33.13 | 33.17 | 33.21 | 33.25 |
| 800              | 33.29 | 33.33 | 33.37 | 33.41 | 33.45    | 33.49 | 33.53 | 33.57 | 33.61 | 33.65 |
| 810              | 33.69 | 33.73 | 33.77 | 33.81 | 33.85    | 33.90 | 33.94 | 33.98 | 34.02 | 34.06 |
| 820              | 34.10 | 34.14 | 34.18 | 34.22 | 34.26    | 34.30 | 34.34 | 34.38 | 34.42 | 34.46 |
| 830              | 34.51 | 34.54 | 34.58 | 34.62 | 34.66    | 34.71 | 34.75 | 34.79 | 34.83 | 34.87 |
| 840              | 34.91 | 34.95 | 34.99 | 35.03 | 35.07    | 35.11 | 35.16 | 35.20 | 35.24 | 35.28 |
| 850              | 35.32 | 35.36 | 35.40 | 35.44 | 35.48    | 35.52 | 35.56 | 35.60 | 35.64 | 35.68 |
| 860              | 35.72 | 35.76 | 35.80 | 35.84 | 35.88    | 35.93 | 35.97 | 36.01 | 36.05 | 36.09 |
| 870              | 36.13 | 36.17 | 36.21 | 36.25 | 36.29    | 36.33 | 36.37 | 36.41 | 36.45 | 36.49 |
| 880              | 36.53 | 36.57 | 36.61 | 36.65 | 36.69    | 36.73 | 36.77 | 36.81 | 36.85 | 36.89 |
| 890              | 36.93 | 36.97 | 37.01 | 37.05 | 37.09    | 37.13 | 37.17 | 37.21 | 37.25 | 37.29 |
| 900              | 37.33 | 37.37 | 37.41 | 37.45 | 37.49    | 37.53 | 37.57 | 37.61 | 37.65 | 37.69 |
| 910              | 37.73 | 37.77 | 37.81 | 37.85 | 37.89    | 37.93 | 37.97 | 38.01 | 38.05 | 38.09 |
| 920              | 38.13 | 38.17 | 38.21 | 38.25 | 38.29    | 38.33 | 38.37 | 38.41 | 38.45 | 38.49 |
| 930              | 38.53 | 38.57 | 38.61 | 38.65 | 38.69    | 38.73 | 38.77 | 38.81 | 38.85 | 38.89 |
| 940              | 38.93 | 38.97 | 39.01 | 39.05 | 39.09    | 39.13 | 39.16 | 39.20 | 39.24 | 39.28 |

8-3(2) B 续

| 工作端<br>温度<br>℃ | 0     | 1     | 2     | 3     | 4        | 5     | 6     | 7     | 8     | 9     |  |
|----------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|--|
|                | 毫     |       |       |       | 伏 (绝对毫伏) |       |       |       |       |       |  |
| 950            | 39.32 | 39.36 | 39.40 | 39.44 | 39.48    | 39.52 | 39.56 | 39.60 | 39.64 | 39.68 |  |
| 960            | 39.72 | 39.76 | 39.80 | 39.83 | 39.87    | 39.91 | 39.94 | 39.98 | 40.02 | 40.06 |  |
| 970            | 40.10 | 40.14 | 40.18 | 40.22 | 40.26    | 40.30 | 40.33 | 40.37 | 40.41 | 40.45 |  |
| 980            | 40.49 | 40.53 | 40.57 | 40.61 | 40.65    | 40.69 | 40.72 | 40.76 | 40.80 | 40.84 |  |
| 990            | 40.88 | 40.92 | 40.96 | 41.00 | 41.04    | 41.08 | 41.11 | 41.15 | 41.19 | 41.23 |  |
| 1000           | 41.27 | 41.31 | 41.35 | 41.39 | 41.43    | 41.47 | 41.50 | 41.54 | 41.58 | 41.62 |  |
| 1010           | 41.66 | 41.70 | 41.74 | 41.77 | 41.81    | 41.85 | 41.89 | 41.93 | 41.96 | 42.00 |  |
| 1020           | 42.04 | 42.08 | 42.12 | 42.16 | 42.20    | 42.24 | 42.27 | 42.31 | 42.35 | 42.39 |  |
| 1030           | 42.43 | 42.47 | 42.51 | 42.55 | 42.59    | 42.63 | 42.66 | 42.70 | 42.74 | 42.78 |  |
| 1040           | 42.83 | 42.87 | 42.90 | 42.93 | 42.97    | 43.01 | 43.05 | 43.09 | 43.13 | 43.17 |  |
| 1050           | 43.21 | 43.25 | 43.29 | 43.32 | 43.35    | 43.39 | 43.43 | 43.47 | 43.51 | 43.55 |  |
| 1060           | 43.59 | 43.63 | 43.67 | 43.69 | 43.73    | 43.77 | 43.81 | 43.85 | 43.89 | 43.93 |  |
| 1070           | 43.97 | 44.01 | 44.05 | 44.08 | 44.11    | 44.15 | 44.19 | 44.22 | 44.26 | 44.30 |  |
| 1080           | 44.34 | 44.38 | 44.42 | 44.45 | 44.49    | 44.53 | 44.57 | 44.61 | 44.64 | 44.68 |  |
| 1090           | 44.72 | 44.76 | 44.80 | 44.83 | 44.87    | 44.91 | 44.95 | 44.99 | 45.02 | 45.06 |  |
| 1100           | 45.10 | 45.14 | 45.18 | 45.21 | 45.28    | 45.29 | 45.33 | 45.37 | 45.40 | 45.44 |  |
| 1110           | 45.48 | 45.52 | 45.55 | 45.59 | 45.63    | 45.67 | 45.70 | 45.74 | 45.78 | 45.81 |  |
| 1120           | 45.85 | 45.89 | 45.93 | 45.96 | 46.00    | 46.04 | 46.08 | 46.12 | 46.15 | 46.19 |  |
| 1130           | 46.23 | 46.27 | 46.30 | 46.34 | 46.38    | 46.42 | 46.45 | 46.49 | 46.53 | 46.56 |  |
| 1140           | 46.60 | 46.64 | 46.67 | 46.71 | 46.75    | 46.79 | 46.82 | 46.86 | 46.90 | 46.93 |  |
| 1150           | 46.97 | 47.01 | 47.04 | 47.08 | 47.12    | 47.16 | 47.19 | 47.23 | 47.27 | 47.30 |  |
| 1160           | 47.34 | 47.38 | 47.41 | 47.45 | 47.49    | 47.53 | 47.56 | 47.60 | 47.64 | 47.67 |  |
| 1170           | 47.71 | 47.75 | 47.78 | 47.82 | 47.86    | 47.90 | 47.93 | 47.97 | 48.01 | 48.04 |  |
| 1180           | 48.08 | 48.12 | 48.15 | 48.19 | 48.22    | 48.26 | 48.30 | 48.33 | 48.37 | 48.40 |  |
| 1190           | 48.44 | 48.48 | 48.51 | 48.55 | 48.59    | 48.63 | 48.66 | 48.70 | 48.74 | 48.77 |  |
| 1200           | 48.81 | 48.85 | 48.88 | 48.92 | 48.95    | 48.99 | 49.03 | 49.06 | 49.10 | 49.13 |  |
| 1210           | 49.17 | 49.21 | 49.24 | 49.28 | 49.31    | 49.35 | 49.39 | 49.42 | 49.46 | 49.49 |  |
| 1220           | 49.53 | 49.57 | 49.60 | 49.64 | 49.67    | 49.71 | 49.75 | 49.78 | 49.82 | 49.85 |  |
| 1230           | 49.89 | 49.93 | 49.96 | 50.00 | 50.03    | 50.07 | 50.11 | 50.14 | 50.18 | 50.21 |  |
| 1240           | 50.25 | 50.29 | 50.32 | 50.36 | 50.39    | 50.43 | 50.47 | 50.50 | 50.54 | 50.59 |  |
| 1250           | 50.61 | 50.65 | 50.68 | 50.72 | 50.75    | 50.79 | 50.83 | 50.86 | 50.90 | 50.93 |  |
| 1260           | 50.96 | 51.00 | 51.03 | 51.07 | 51.10    | 51.14 | 51.18 | 51.21 | 51.25 | 51.28 |  |
| 1270           | 51.32 | 51.35 | 51.39 | 51.43 | 51.46    | 51.50 | 51.54 | 51.57 | 51.61 | 51.64 |  |
| 1280           | 51.67 | 51.71 | 51.74 | 51.78 | 51.81    | 51.85 | 51.88 | 51.92 | 51.95 | 51.99 |  |
| 1290           | 52.02 | 52.06 | 52.09 | 52.13 | 52.16    | 52.20 | 52.23 | 52.27 | 52.30 | 52.33 |  |
| 1300           | 52.37 |       |       |       |          |       |       |       |       |       |  |

## C 镍铬 - 考铜热电偶分度表

分度号: EA-2

(自由端温度为0℃)

| 工作端<br>温 度<br>℃ | 0     | 1     | 2     | 3     | 4        | 5     | 6     | 7     | 8     | 9     |
|-----------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                 | 毫     |       |       |       | 伏 (绝对毫伏) |       |       |       |       |       |
| -50             | -3.11 |       |       |       |          |       |       |       |       |       |
| -40             | -2.50 | -2.56 | -2.62 | -2.68 | -2.74    | -2.81 | -2.87 | -2.93 | -2.99 | -3.05 |
| -30             | -1.89 | -1.95 | -2.01 | -2.07 | -2.13    | -2.20 | -2.26 | -2.32 | -2.38 | -2.44 |
| -20             | -1.27 | -1.33 | -1.39 | -1.46 | -1.52    | -1.58 | -1.64 | -1.70 | -1.77 | -1.83 |
| -10             | -0.64 | -0.70 | -0.77 | -0.83 | -0.89    | -0.96 | -1.02 | -1.08 | -1.14 | -1.21 |
| -0              | -0.00 | -0.06 | -0.13 | -0.19 | -0.26    | -0.32 | -0.38 | -0.45 | -0.51 | -0.58 |
| +0              | 0.00  | 0.07  | 0.13  | 0.20  | 0.26     | 0.33  | 0.39  | 0.46  | 0.52  | 0.59  |
| 10              | 0.65  | 0.72  | 0.78  | 0.85  | 0.91     | 0.98  | 1.05  | 1.11  | 1.18  | 1.24  |
| 20              | 1.31  | 1.38  | 1.44  | 1.51  | 1.57     | 1.64  | 1.70  | 1.77  | 1.84  | 1.91  |
| 30              | 1.98  | 2.05  | 2.12  | 2.18  | 2.25     | 2.32  | 2.38  | 2.45  | 2.52  | 2.59  |
| 40              | 2.66  | 2.73  | 2.80  | 2.87  | 2.94     | 3.00  | 3.07  | 3.14  | 3.21  | 3.28  |
| 50              | 3.35  | 3.42  | 3.49  | 3.56  | 3.63     | 3.70  | 3.77  | 3.84  | 3.91  | 3.98  |
| 60              | 4.05  | 4.12  | 4.19  | 4.26  | 4.33     | 4.41  | 4.48  | 4.55  | 4.62  | 4.69  |
| 70              | 4.76  | 4.83  | 4.90  | 4.98  | 5.05     | 5.12  | 5.20  | 5.27  | 5.34  | 5.41  |
| 80              | 5.48  | 5.56  | 5.63  | 5.70  | 5.78     | 5.85  | 5.92  | 5.99  | 6.07  | 6.14  |
| 90              | 6.21  | 6.29  | 6.36  | 6.43  | 6.51     | 6.58  | 6.65  | 6.73  | 6.80  | 6.87  |
| 100             | 6.95  | 7.03  | 7.10  | 7.17  | 7.25     | 7.32  | 7.40  | 7.47  | 7.54  | 7.62  |
| 110             | 7.69  | 7.77  | 7.84  | 7.91  | 7.99     | 8.06  | 8.13  | 8.21  | 8.28  | 8.35  |
| 120             | 8.43  | 8.50  | 8.53  | 8.65  | 8.73     | 8.80  | 8.88  | 8.95  | 9.03  | 9.10  |
| 130             | 9.18  | 9.25  | 9.33  | 9.40  | 9.48     | 9.55  | 9.63  | 9.70  | 9.78  | 9.85  |
| 140             | 9.93  | 10.00 | 10.08 | 10.16 | 10.23    | 10.31 | 10.38 | 10.46 | 10.54 | 10.61 |
| 150             | 10.69 | 10.77 | 10.85 | 10.92 | 11.00    | 11.08 | 11.15 | 11.23 | 11.31 | 11.38 |
| 160             | 11.46 | 11.54 | 11.62 | 11.69 | 11.77    | 11.85 | 11.93 | 12.00 | 12.08 | 12.16 |
| 170             | 12.24 | 12.32 | 12.40 | 12.48 | 12.55    | 12.63 | 12.71 | 12.79 | 12.87 | 12.95 |
| 180             | 13.03 | 13.11 | 13.19 | 13.27 | 13.36    | 13.44 | 13.52 | 13.60 | 13.68 | 13.76 |
| 190             | 13.84 | 13.92 | 14.00 | 14.08 | 14.16    | 14.25 | 14.34 | 14.42 | 14.50 | 14.58 |
| 200             | 14.66 | 14.74 | 14.82 | 14.90 | 14.98    | 15.06 | 15.14 | 15.22 | 15.30 | 15.38 |
| 210             | 15.48 | 15.56 | 15.64 | 15.72 | 15.80    | 15.89 | 15.97 | 16.05 | 16.13 | 16.21 |
| 220             | 16.30 | 16.38 | 16.46 | 16.54 | 16.62    | 16.71 | 16.79 | 16.86 | 16.95 | 17.03 |
| 230             | 17.12 | 17.20 | 17.28 | 17.37 | 17.45    | 17.53 | 17.62 | 17.70 | 17.78 | 17.87 |
| 240             | 17.95 | 18.03 | 18.11 | 18.19 | 18.28    | 18.36 | 18.44 | 18.52 | 18.60 | 18.68 |
| 250             | 18.76 | 18.84 | 18.92 | 19.01 | 19.09    | 19.17 | 19.26 | 19.34 | 19.42 | 19.51 |
| 260             | 19.59 | 19.67 | 19.75 | 19.84 | 19.92    | 20.00 | 20.09 | 20.17 | 20.25 | 20.34 |
| 270             | 20.42 | 20.50 | 20.58 | 20.66 | 20.74    | 20.83 | 20.91 | 20.99 | 21.07 | 21.15 |
| 280             | 21.24 | 21.32 | 21.40 | 21.49 | 21.57    | 21.65 | 21.73 | 21.82 | 21.90 | 21.98 |
| 290             | 22.07 | 22.15 | 22.23 | 22.32 | 22.40    | 22.48 | 22.57 | 22.65 | 22.73 | 22.81 |

8-3(2)C 续

| 工作端<br>温 度<br>°C | 0          | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     |
|------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 毫 伏 (绝对毫伏) |       |       |       |       |       |       |       |       |       |
| 300              | 22.90      | 22.98 | 23.07 | 23.15 | 23.23 | 23.32 | 23.40 | 23.49 | 23.57 | 23.66 |
| 310              | 23.74      | 23.83 | 23.91 | 24.00 | 24.08 | 24.17 | 24.25 | 24.34 | 24.42 | 24.51 |
| 320              | 24.59      | 24.68 | 24.76 | 24.85 | 24.93 | 25.02 | 25.10 | 25.19 | 25.27 | 25.36 |
| 330              | 25.44      | 25.53 | 25.61 | 25.70 | 25.78 | 25.86 | 25.95 | 26.03 | 26.12 | 26.21 |
| 340              | 26.30      | 26.38 | 26.47 | 26.55 | 26.64 | 26.73 | 26.81 | 26.90 | 26.98 | 27.07 |
| 350              | 27.15      | 27.24 | 27.32 | 27.41 | 27.49 | 27.58 | 27.66 | 27.75 | 27.83 | 27.92 |
| 360              | 28.01      | 28.10 | 28.19 | 28.27 | 28.36 | 28.45 | 28.54 | 28.62 | 28.71 | 28.80 |
| 370              | 28.88      | 28.97 | 29.06 | 29.14 | 29.23 | 29.32 | 29.40 | 29.49 | 29.58 | 29.66 |
| 380              | 29.75      | 29.83 | 29.92 | 30.00 | 30.09 | 30.17 | 30.26 | 30.34 | 30.43 | 30.52 |
| 390              | 30.61      | 30.70 | 30.79 | 30.87 | 30.96 | 31.05 | 31.13 | 31.22 | 31.30 | 31.39 |
| 400              | 31.48      | 31.57 | 31.66 | 31.74 | 31.83 | 31.92 | 32.00 | 32.09 | 32.18 | 32.26 |
| 410              | 32.34      | 32.43 | 32.52 | 32.60 | 32.69 | 32.78 | 32.86 | 32.95 | 33.04 | 33.13 |
| 420              | 33.21      | 33.30 | 33.39 | 33.49 | 33.56 | 33.65 | 33.73 | 33.82 | 33.90 | 33.99 |
| 430              | 34.07      | 34.16 | 34.25 | 34.33 | 34.42 | 34.51 | 34.60 | 34.68 | 34.77 | 34.85 |
| 440              | 34.94      | 35.03 | 35.12 | 35.20 | 35.29 | 35.38 | 35.46 | 35.55 | 35.64 | 35.72 |
| 450              | 35.81      | 35.90 | 35.98 | 36.07 | 36.15 | 36.24 | 36.33 | 36.41 | 36.50 | 36.58 |
| 460              | 36.67      | 36.76 | 36.84 | 36.93 | 37.02 | 37.11 | 37.19 | 37.28 | 37.37 | 37.45 |
| 470              | 37.54      | 37.63 | 37.71 | 37.80 | 37.89 | 37.98 | 38.06 | 38.15 | 38.24 | 38.32 |
| 480              | 38.41      | 38.50 | 38.58 | 38.67 | 38.76 | 38.85 | 38.93 | 39.02 | 39.11 | 39.19 |
| 490              | 39.28      | 39.37 | 39.45 | 39.54 | 39.63 | 39.72 | 39.80 | 39.89 | 39.98 | 40.06 |
| 500              | 40.15      | 40.24 | 40.32 | 40.41 | 40.50 | 40.59 | 40.67 | 40.76 | 40.85 | 40.93 |
| 510              | 41.02      | 41.11 | 41.20 | 41.28 | 41.37 | 41.46 | 41.55 | 41.64 | 41.72 | 41.81 |
| 520              | 41.90      | 41.99 | 42.08 | 42.16 | 42.25 | 42.34 | 42.43 | 42.52 | 42.60 | 42.69 |
| 530              | 42.78      | 42.87 | 42.96 | 43.05 | 43.14 | 43.23 | 43.32 | 43.41 | 43.49 | 43.57 |
| 540              | 43.67      | 43.75 | 43.84 | 43.93 | 44.02 | 44.11 | 44.19 | 44.28 | 44.37 | 44.46 |
| 550              | 44.55      | 44.64 | 44.73 | 44.82 | 44.91 | 44.99 | 45.08 | 45.17 | 45.26 | 45.35 |
| 560              | 45.44      | 45.53 | 45.62 | 45.71 | 45.80 | 45.89 | 45.97 | 46.06 | 46.15 | 46.24 |
| 570              | 46.33      | 46.42 | 46.51 | 46.60 | 46.69 | 46.78 | 46.86 | 46.95 | 47.04 | 47.13 |
| 580              | 47.22      | 47.31 | 47.40 | 47.49 | 47.58 | 47.67 | 47.75 | 47.84 | 47.93 | 48.02 |
| 590              | 48.11      | 48.20 | 48.29 | 48.38 | 48.47 | 48.56 | 48.65 | 48.74 | 48.83 | 48.91 |
| 600              | 49.01      | 49.10 | 49.18 | 49.27 | 49.36 | 49.45 | 49.54 | 49.63 | 49.71 | 49.80 |
| 610              | 49.89      | 49.98 | 50.07 | 50.15 | 50.24 | 50.32 | 50.41 | 50.50 | 50.59 | 50.67 |
| 620              | 50.76      | 50.85 | 50.94 | 51.02 | 51.11 | 51.20 | 51.29 | 51.38 | 51.46 | 51.55 |
| 630              | 51.64      | 51.73 | 51.81 | 51.90 | 51.99 | 52.08 | 52.16 | 52.25 | 52.34 | 52.42 |
| 640              | 52.51      | 52.60 | 52.69 | 52.77 | 52.86 | 52.95 | 53.04 | 53.13 | 53.21 | 53.30 |
| 650              | 53.39      | 53.48 | 53.56 | 53.65 | 53.74 | 53.83 | 53.91 | 54.00 | 54.09 | 54.17 |
| 660              | 54.26      | 54.35 | 54.43 | 54.52 | 54.60 | 54.69 | 54.77 | 54.86 | 54.95 | 55.03 |
| 670              | 55.12      | 55.21 | 55.29 | 55.38 | 55.47 | 55.56 | 55.64 | 55.73 | 55.82 | 55.91 |
| 680              | 56.00      | 56.09 | 56.17 | 56.26 | 56.35 | 56.44 | 56.52 | 56.61 | 56.70 | 56.78 |
| 690              | 56.87      | 56.96 | 57.04 | 57.13 | 57.22 | 57.31 | 57.39 | 57.48 | 57.57 | 57.66 |

8-3(2)C 续

| 工作端<br>温 度<br>°C | 0     | 1     | 2     | 3     | 4        | 5     | 6     | 7     | 8     | 9     |
|------------------|-------|-------|-------|-------|----------|-------|-------|-------|-------|-------|
|                  | 毫     |       |       |       | 伏 (绝对毫伏) |       |       |       |       |       |
| 700              | 57.74 | 57.83 | 57.91 | 58.00 | 58.08    | 58.17 | 58.25 | 58.34 | 58.43 | 58.51 |
| 710              | 58.57 | 58.69 | 58.77 | 58.86 | 58.95    | 59.04 | 59.12 | 59.21 | 59.30 | 59.38 |
| 720              | 59.47 | 59.56 | 59.64 | 59.73 | 59.81    | 59.90 | 59.99 | 60.07 | 60.16 | 60.24 |
| 730              | 60.33 | 60.42 | 60.50 | 60.59 | 60.68    | 60.77 | 60.85 | 60.94 | 61.03 | 61.11 |
| 740              | 61.20 | 61.29 | 61.37 | 61.46 | 61.54    | 61.63 | 61.71 | 61.80 | 61.89 | 61.97 |
| 750              | 62.06 | 62.15 | 62.23 | 62.32 | 62.40    | 62.49 | 62.58 | 62.66 | 62.75 | 62.83 |
| 760              | 62.92 | 63.01 | 63.09 | 63.18 | 63.26    | 63.35 | 63.44 | 63.52 | 63.61 | 63.69 |
| 770              | 63.78 | 63.87 | 63.95 | 64.04 | 64.12    | 64.21 | 64.30 | 64.38 | 64.47 | 64.55 |
| 780              | 64.64 | 64.73 | 64.81 | 64.90 | 64.98    | 65.07 | 65.16 | 65.24 | 65.33 | 65.41 |
| 790              | 65.50 | 65.59 | 65.67 | 65.76 | 65.84    | 65.93 | 66.02 | 66.10 | 66.19 | 66.27 |
| 800              | 66.36 |       |       |       |          |       |       |       |       |       |

D 铂铑<sub>30</sub>-铂铑<sub>6</sub>高温热电偶分度表

分度号: LL-2

(自由端温度为0°C)

| 工作端<br>温 度<br>°C | 0      | 1      | 2      | 3      | 4        | 5      | 6      | 7      | 8      | 9      |
|------------------|--------|--------|--------|--------|----------|--------|--------|--------|--------|--------|
|                  | 毫      |        |        |        | 伏 (绝对毫伏) |        |        |        |        |        |
| 0                | 0.000  | 0.000  | 0.000  | 0.000  | 0.000    | -0.000 | -0.001 | -0.001 | -0.001 | -0.001 |
| 10               | -0.001 | -0.002 | -0.002 | -0.002 | -0.002   | -0.002 | -0.002 | -0.002 | -0.002 | -0.002 |
| 20               | -0.002 | -0.002 | -0.002 | -0.002 | -0.002   | -0.002 | -0.002 | -0.002 | -0.002 | -0.002 |
| 30               | -0.002 | -0.002 | -0.001 | -0.001 | -0.001   | -0.001 | -0.001 | -0.001 | 0.000  | 0.000  |
| 40               | 0.000  | 0.000  | 0.000  | 0.000  | 0.001    | 0.001  | 0.002  | 0.002  | 0.002  | 0.002  |
| 50               | 0.003  | 0.003  | 0.003  | 0.004  | 0.004    | 0.004  | 0.005  | 0.005  | 0.006  | 0.006  |
| 60               | 0.007  | 0.007  | 0.008  | 0.008  | 0.008    | 0.009  | 0.010  | 0.010  | 0.010  | 0.011  |
| 70               | 0.012  | 0.012  | 0.013  | 0.013  | 0.014    | 0.015  | 0.015  | 0.016  | 0.016  | 0.017  |
| 80               | 0.018  | 0.018  | 0.019  | 0.020  | 0.021    | 0.021  | 0.022  | 0.023  | 0.024  | 0.024  |
| 90               | 0.025  | 0.026  | 0.027  | 0.028  | 0.028    | 0.029  | 0.030  | 0.031  | 0.032  | 0.033  |
| 100              | 0.034  | 0.034  | 0.035  | 0.036  | 0.037    | 0.038  | 0.039  | 0.040  | 0.041  | 0.042  |
| 110              | 0.043  | 0.044  | 0.045  | 0.046  | 0.047    | 0.048  | 0.049  | 0.050  | 0.051  | 0.052  |
| 120              | 0.054  | 0.055  | 0.056  | 0.057  | 0.058    | 0.059  | 0.060  | 0.062  | 0.063  | 0.064  |
| 130              | 0.065  | 0.067  | 0.068  | 0.069  | 0.070    | 0.072  | 0.073  | 0.074  | 0.076  | 0.077  |
| 140              | 0.078  | 0.080  | 0.081  | 0.082  | 0.084    | 0.085  | 0.086  | 0.088  | 0.089  | 0.091  |