




|   |                 |
|---|-----------------|
| <b>PRODUCT SPECIFICATION</b>                          | <b>PS 5.1.2</b> |
| <b>STD Family Disc Temperature Conversion Factors</b> |                 |

| <b>STD FAMILY DISC TEMPERATURE FACTORS</b> |           |                               |           |            |            |             |               |               |
|--|-----------|-------------------------------|-----------|------------|------------|-------------|---------------|---------------|
| <b>DISC TEMP</b>                           |           | <b>RUPTURE DISC MATERIALS</b> |           |            |            |             |               |               |
| <b>°F</b>                                  | <b>°C</b> | <b>316</b>                    | <b>NI</b> | <b>MON</b> | <b>INC</b> | <b>ALUM</b> | <b>SILVER</b> | <b>HAST C</b> |
| -423                                       | -253      | 200                           | 165       | 155        | 132        | 170         | 164           | 125           |
| -320                                       | -196      | 181                           | 144       | 140        | 126        | 152         | 152           | 119           |
| -225                                       | -143      | 165                           | 126       | 129        | 120        | 140         | 141           | 114           |
| -200                                       | -129      | 160                           | 122       | 126        | 118        | 136         | 138           | 113           |
| -150                                       | -101      | 150                           | 116       | 123        | 115        | 129         | 130           | 110           |
| -130                                       | -90       | 145                           | 116       | 121        | 114        | 127         | 126           | 109           |
| -110                                       | -79       | 141                           | 115       | 120        | 113        | 122         | 123           | 108           |
| -100                                       | -73       | 139                           | 115       | 119        | 112        | 120         | 122           | 108           |
| -90  | -68       | 136                           | 114       | 118        | 112        | 120         | 121           | 107           |
| -80  | -62       | 134                           | 114       | 117        | 111        | 120         | 120           | 107           |
| -70  | -57       | 132                           | 113       | 116        | 110        | 119         | 120           | 106           |
| -60  | -51       | 130                           | 112       | 115        | 110        | 119         | 119           | 106           |
| -50  | -46       | 128                           | 112       | 114        | 109        | 119         | 118           | 105           |
| -40  | -40       | 125                           | 111       | 113        | 108        | 118         | 117           | 105           |
| -30  | -34       | 123                           | 110       | 112        | 108        | 117         | 115           | 104           |
| -20  | -29       | 121                           | 109       | 111        | 107        | 116         | 112           | 104           |
| -10  | -23       | 118                           | 108       | 110        | 106        | 115         | 110           | 103           |
| 0  | -18       | 116                           | 107       | 109        | 105        | 114         | 108           | 103           |
| 10   | -12       | 114                           | 106       | 108        | 105        | 113         | 107           | 103           |
| 20   | -7        | 112                           | 105       | 106        | 104        | 111         | 105           | 102           |
| 30   | -1        | 110                           | 104       | 105        | 103        | 110         | 104           | 102           |
| 40   | 4         | 107                           | 103       | 104        | 102        | 108         | 103           | 101           |
| 50   | 10        | 105                           | 102       | 103        | 102        | 106         | 102           | 101           |
| 60   | 16        | 103                           | 101       | 101        | 101        | 103         | 101           | 100           |

|   |                    |                               |
|---|--------------------|-------------------------------|
| <b>TITLE: STD Family Disk Temperature Conversion Factors</b>  |                    |                               |
| <b>APPROVED:</b><br> | <b>REVISION:</b>   | <b>DATE:</b>                  |
| <b>DIST./IMPLEMENTATION DATE:</b>   |                    | <b>ASSIGNED NO.: PS 5.1.2</b> |
| <b>BROKEN ARROW, OKLAHOMA</b>   | <b>ORIG. DATE:</b> | <b>PAGE 1</b>                 |



**PRODUCT SPECIFICATION**

**PS 5.1.2**

**STD Family Disc Temperature Conversion Factors**

| <b>STD FAMILY DISC TEMPERATURE FACTORS</b> |           |                               |           |            |            |             |               |               |
|--|-----------|-------------------------------|-----------|------------|------------|-------------|---------------|---------------|
| <b>DISC TEMP</b>                           |           | <b>RUPTURE DISC MATERIALS</b> |           |            |            |             |               |               |
| <b>°F</b>                                  | <b>°C</b> | <b>316</b>                    | <b>NI</b> | <b>MON</b> | <b>INC</b> | <b>ALUM</b> | <b>SILVER</b> | <b>HAST C</b> |
| 72   | 22        | 100                           | 100       | 100        | 100        | 100         | 100           | 100           |
| 80   | 27        | 99                            | 100       | 99         | 100        | 100         | 100           | 100           |
| 90   | 32        | 98                            | 99        | 98         | 99         | 99          | 99            | 99            |
| 100  | 38        | 96                            | 99        | 97         | 99         | 98          | 99            | 99            |
| 110  | 43        | 95                            | 98        | 96         | 99         | 97          | 98            | 98            |
| 120  | 49        | 94                            | 98        | 95         | 98         | 97          | 98            | 98            |
| 130  | 54        | 93                            | 97        | 95         | 98         | 96          | 97            | 97            |
| 140  | 60        | 92                            | 97        | 94         | 98         | 95          | 96            | 97            |
| 150  | 66        | 91                            | 96        | 93         | 97         | 94          | 95            | 97            |
| 160  | 71        | 90                            | 96        | 93         | 97         | 93          | 94            | 96            |
| 170  | 77        | 90                            | 96        | 92         | 97         | 92          | 93            | 96            |
| 180  | 82        | 89                            | 95        | 92         | 96         | 90          | 92            | 95            |
| 190  | 88        | 89                            | 95        | 91         | 96         | 89          | 91            | 95            |
| 200  | 93        | 88                            | 95        | 91         | 95         | 88          | 90            | 95            |
| 210  | 99        | 88                            | 94        | 90         | 95         | 87          | 89            | 94            |
| 220  | 104       | 87                            | 94        | 90         | 95         | 85          | 87            | 94            |
| 230  | 110       | 87                            | 94        | 89         | 95         | 84          | 86            | 94            |
| 240  | 116       | 86                            | 94        | 89         | 95         | 82          | 85            | 93            |
| 250  | 121       | 86                            | 93        | 89         | 95         | 81          | 84            | 93            |
| 260  | 127       | 86                            | 93        | 88         | 94         | Max 250°F   | Max 250°F     | 92            |
| 270  | 132       | 85                            | 93        | 88         | 94         | ---         | ---           | 92            |
| 280  | 138       | 85                            | 93        | 88         | 94         | ---         | ---           | 92            |
| 290  | 143       | 84                            | 93        | 87         | 94         | ---         | ---           | 91            |
| 300  | 149       | 84                            | 93        | 87         | 94         | ---         | ---           | 91            |
| 310  | 154       | 84                            | 92        | 87         | 94         | ---         | ---           | 91            |
| 320  | 160       | 83                            | 92        | 86         | 94         | ---         | ---           | 90            |

**TITLE: STD Family Disc Temperature Conversion Factors**

**REVISION:**

**ASSIGNED NO.: PS 5.1.2**

**PAGE 2**



|   |                 |
|---|-----------------|
| <b>PRODUCT SPECIFICATION</b>                          | <b>PS 5.1.2</b> |
| <b>STD Family Disc Temperature Conversion Factors</b> |                 |

| <b>STD FAMILY DISC TEMPERATURE FACTORS</b> |           |                               |           |            |            |             |               |               |
|--|-----------|-------------------------------|-----------|------------|------------|-------------|---------------|---------------|
| <b>DISC TEMP</b>                           |           | <b>RUPTURE DISC MATERIALS</b> |           |            |            |             |               |               |
| <b>°F</b>                                  | <b>°C</b> | <b>316</b>                    | <b>NI</b> | <b>MON</b> | <b>INC</b> | <b>ALUM</b> | <b>SILVER</b> | <b>HAST C</b> |
| 330  | 165       | 83                            | 92        | 86         | 94         | ---         | ---           | 90            |
| 340  | 171       | 83                            | 92        | 86         | 94         | ---         | ---           | 90            |
| 350  | 177       | 82                            | 91        | 85         | 93         | ---         | ---           | 89            |
| 360  | 182       | 82                            | 91        | 85         | 93         | ---         | ---           | 90            |
| 370  | 188       | 82                            | 91        | 85         | 93         | ---         | ---           | 90            |
| 380  | 193       | 82                            | 91        | 85         | 93         | ---         | ---           | 90            |
| 390  | 199       | 81                            | 90        | 84         | 93         | ---         | ---           | 90            |
| 400  | 204       | 81                            | 90        | 84         | 93         | ---         | ---           | 90            |
| 410  | 210       | 81                            | 90        | 84         | 93         | ---         | ---           | 90            |
| 420  | 216       | 81                            | 90        | 84         | 93         | ---         | ---           | 90            |
| 430  | 221       | 81                            | 89        | 84         | 93         | ---         | ---           | 90            |
| 440  | 227       | 80                            | 89        | 83         | 93         | ---         | ---           | 90            |
| 450  | 232       | 80                            | 89        | 83         | 93         | ---         | ---           | 89            |
| 460  | 238       | 80                            | 88        | 83         | 93         | ---         | ---           | 89            |
| 470  | 243       | 80                            | 88        | 83         | 93         | ---         | ---           | 88            |
| 480  | 249       | 80                            | 87        | 83         | 93         | ---         | ---           | 88            |
| 490  | 254       | 80                            | 87        | 82         | 94         | ---         | ---           | 88            |
| 500  | 260       | 79                            | 86        | 82         | 94         | ---         | ---           | 87            |
| 520  | 271       | 79                            | 85        | 82         | 94         | ---         | ---           | 87            |
| 540  | 282       | 79                            | 84        | 82         | 94         | ---         | ---           | 86            |
| 560  | 293       | 79                            | 83        | 81         | 94         | ---         | ---           | 85            |
| 580  | 304       | 78                            | 82        | 81         | 94         | ---         | ---           | 85            |
| 600  | 316       | 78                            | 81        | 81         | 94         | ---         | ---           | 84            |
| 620  | 327       | 77                            | 79        | 80         | 94         | ---         | ---           | 83            |
| 640  | 338       | 77                            | 78        | 80         | 94         | ---         | ---           | 83            |
| 660  | 349       | 77                            | 77        | 79         | 93         | ---         | ---           | 82            |



**PRODUCT SPECIFICATION**

**PS 5.1.2**

**STD Family Disc Temperature Conversion Factors**

| <b>STD FAMILY DISC TEMPERATURE FACTORS</b> |           |                               |           |            |            |             |               |               |
|--|-----------|-------------------------------|-----------|------------|------------|-------------|---------------|---------------|
| <b>DISC TEMP</b>                           |           | <b>RUPTURE DISC MATERIALS</b> |           |            |            |             |               |               |
| <b>°F</b>                                  | <b>°C</b> | <b>316</b>                    | <b>NI</b> | <b>MON</b> | <b>INC</b> | <b>ALUM</b> | <b>SILVER</b> | <b>HAST C</b> |
| 700  | 371       | 76                            | 75        | 78         | 93         | ---         | ---           | 81            |
| 720  | 382       | 76                            | 73        | 77         | 93         | ---         | ---           | 80            |
| 740  | 393       | 76                            | 72        | 77         | 93         | ---         | ---           | 79            |
| 760  | 404       | 75                            | Max 750°F | 76         | 93         | ---         | ---           | 79            |
| 780  | 416       | 75                            | ---       | 76         | 93         | ---         | ---           | 78            |
| 800  | 427       | 75                            | ---       | 75         | 92         | ---         | ---           | 77            |
| 820  | 438       | 75                            | ---       | Max 800°F  | 92         | ---         | ---           | 77            |
| 840  | 449       | 75                            | ---       | ---        | 92         | ---         | ---           | 76            |
| 860  | 460       | 75                            | ---       | ---        | 92         | ---         | ---           | 76            |
| 880  | 471       | 74                            | ---       | ---        | 91         | ---         | ---           | 75            |
| 900  | 482       | 74                            | ---       | ---        | 91         | ---         | ---           | 75            |
| 920  | --        | Max 900°F                     | ---       | ---        | Max 900°F  | ---         | ---           | 74            |
| 940  | --        | ---                           | ---       | ---        | ---        | ---         | ---           | 73            |
| 960  | ---       | ---                           | ---       | ---        | ---        | ---         | ---           | 73            |
| 980  | ---       | ---                           | ---       | ---        | ---        | ---         | ---           | 72            |
| 1000                                       | ---       | ---                           | ---       | ---        | ---        | ---         | ---           | 72            |

**TITLE: STD Family Disc Temperature Conversion Factors**

**REVISION:**

**ASSIGNED NO.: PS 5.1.2**

**PAGE 4**

**TITLE: STD Family Disc Temperature Conversion Factors**

**REVISION:**

**ASSIGNED NO.: PS 5.1.2**

**PAGE 5**