

Cone Bore Growth Expansion Rates Due to Thermal Changes

Calculations based on an ambient temperature of 70° Fahrenheit

| Cone bore (inches) | Thermometer temperature reading in degrees Fahrenheit | | |
|-------------------------|---|--------|--------|
| | 200° F | 150° F | 250° F |
| 1 | 0.0008 | 0.0005 | 0.0011 |
| 2 | 0.0016 | 0.0010 | 0.0022 |
| 3 | 0.0023 | 0.0014 | 0.0032 |
| 4 | 0.0031 | 0.0019 | 0.0043 |
| 5 | 0.0039 | 0.0024 | 0.0054 |
| 6 | 0.0047 | 0.0029 | 0.0065 |
| 7 | 0.0055 | 0.0034 | 0.0076 |
| 8 | 0.0062 | 0.0038 | 0.0086 |
| 9 | 0.0070 | 0.0043 | 0.0097 |
| 10 | 0.0078 | 0.0048 | 0.0108 |
| 11 | 0.0086 | 0.0053 | 0.0119 |
| 12 | 0.0094 | 0.0058 | 0.0130 |
| 13 | 0.0101 | 0.0062 | 0.0140 |
| 14 | 0.0109 | 0.0067 | 0.0151 |
| 15 | 0.0117 | 0.0072 | 0.0162 |
| 16 | 0.0125 | 0.0077 | 0.0173 |
| 17 | 0.0133 | 0.0082 | 0.0184 |
| 18 | 0.0140 | 0.0086 | 0.0194 |
| 19 | 0.0148 | 0.0091 | 0.0205 |
| 20 | 0.0156 | 0.0096 | 0.0216 |
| 21 | 0.0164 | 0.0101 | 0.0227 |
| 22 | 0.0172 | 0.0106 | 0.0238 |
| 23 | 0.0179 | 0.0110 | 0.0248 |
| 24 | 0.0187 | 0.0115 | 0.0259 |
| 25 | 0.0195 | 0.0120 | 0.0270 |
| 26 | 0.0203 | 0.0125 | 0.0281 |
| 27 | 0.0211 | 0.0130 | 0.0292 |
| 28 | 0.0218 | 0.0134 | 0.0302 |
| 29 | 0.0226 | 0.0139 | 0.0313 |
| 30 | 0.0234 | 0.0144 | 0.0324 |
| 31 | 0.0242 | 0.0149 | 0.0335 |
| 32 | 0.0250 | 0.0154 | 0.0346 |
| 33 | 0.0257 | 0.0158 | 0.0356 |
| 34 | 0.0265 | 0.0163 | 0.0367 |
| 35 | 0.0273 | 0.0168 | 0.0378 |
| 36 | 0.0281 | 0.0173 | 0.0389 |