

## FIRING TEMPERATURES

The Greek letter Delta, or 'Δ', is the commonly used symbol for the word "cone." During firing, cones soften and melt as they are heated, and gravity causes them to bend. It usually takes 15 to 22 minutes for cones to bend fully once they begin melting.

Cone	°F	°C	Common Firing Temperatures
022.....	1094 .....	590	
021.....	1143.....	617	
020.....	1180 .....	638	
019.....	1265 .....	685 .....	Mother-of-Pearl
018.....	1337.....	725.....	Gold, Lusters, China Paints, Decals, Enamel
017 .....	1386 .....	752	
016.....	1443 .....	784	
015.....	1485 .....	807	
014.....	1528 .....	831.....	Glass Fusing
013.....	1578.....	859	
012.....	1587.....	864	
011.....	1623 .....	884	
010.....	1641.....	894	
09.....	1693 .....	923	
08.....	1751.....	955 .....	Soft Bisque for Raku Work
07 .....	1803 .....	984	
06.....	1830 .....	999	
05.....	1915.....	1046.....	Hobby Ceramic Glazes
04.....	1940 .....	1060.....	Hobby Ceramic & Pottery Bisque
03.....	2014.....	1101	(for Δ6 - Δ10 Clay)
02.....	2048 .....	1120	
01.....	2079.....	1137	
1.....	2109.....	1154.....	Sanitary Ware Glaze Firing
2.....	2124.....	1162.....	Sanitary Ware Glaze Firing
3.....	2134.....	1168	
4.....	2167.....	1186	
5.....	2185.....	1196.....	Stoneware Glazes (beginning of range)
6.....	2232 .....	1222 .....	Porcelain Doll Full Bisque Maturity
7 .....	2264 .....	1240.....	Upper end of Stoneware Glaze range
8.....	2305 .....	1263	
9.....	2336 .....	1280 .....	Pottery Glaze Firing (in wood or fossil-fueled kilns
10 .....	2381 .....	1305	and reduction atmospheres)
11 .....	2399 .....	1315	
12 .....	2419.....	1326	

*Temperatures are based on Self-Supporting Cones at 270 °F or 132 °C per hour rate of increase.*

Cone numbers originally started at 1 and went to 20. Each higher cone number requires more heat to bend. Higher and lower cones were developed as demand grew. A zero was added in front of the number for cones maturing at temperatures below the original cone 1. Thus Δ01 needs less heat than Δ1, and Δ020 needs less than Δ019.

**It is important not to mix up the lower maturing cones (whose numbers begin with zero) with the higher maturing cones.**

**-- Δ06 and Δ6 are not the same! --**



## Cone Prices

**SRB** ... Junior Cones .....\$12.80

- Commonly used in the Dawson Kiln-Sitter.
- Tapered shape gives some flexibility in adjusting the shutoff point.
- Can be used as mini witness cones in tight spaces.
- Melt at slightly higher temperatures than SSBs or LRBs.
- Box of 50

**BRB** ... Mini Bars..... \$15.00

- Designed especially for the Dawson Kiln-Sitter.
- Uniform shape makes consistent placement easy.
- Box of 50

**LRB** ... Large Cones .....\$17.40

- The original pyrometric cones.
- Used to visually monitor firing progress and heatwork throughout the kiln through viewing (peep) ports.
- Need to be supported by cone plaques, clay pats, or wire cone holders (see below).
- Uniform mounting height & angle - very important!
- We stock cones 012 - 12
- Box of 50

**SSB** .. Self-Supporting Cones .....\$12.80

- Preferred for use as witness cones on kiln shelves.
- Most accurate and easiest to use cones available.
- Box of 25

**CHS** ..... Wire Cone Holders ..... (bag of 5)

When you buy ...    **1-5 @**            **6-11 @**            **12+ @**  
                                      \$7.35.....        \$5.88.....        \$5.15

**MS517** ..... 3-Hole Cone Plaque ..... \$1.99

- Use with LRB cones

Quantity discounts apply on multiples of the same item