

WE HELP YOU MAKE GREAT THINGS.



**SKUTT**  
CERAMIC PRODUCTS

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**PRE-FIRING CHECK**



Check for and remove any flammable material on or around the kiln area.



Check lid brace and anchor. When lid is open, double check the brace is securely engaged prior to releasing lid.



Inspect cord, plug and receptacle every 6 months.



Inspect brick and elements. Vacuum inside of kiln when needed or about every 20 firings.



Inspect Thermocouples. Left one is new - right will need replacing soon. When loading kiln, leave at least 1" space for accurate temp. readings.



Turn on the EnviroVent to vent fumes. Turn on AC/room ventilation designed to keep the room below 105°F.

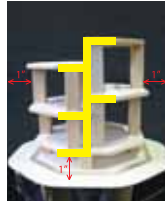
**STACKING AND FIRING**



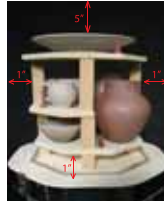
Apply Kiln wash to shelves to protect them from glaze. Inspect the coverage to make sure there are no bare spots. Recoat if necessary.



Clean glaze off on bisque ware bottoms or use stilt to raise the pots off the shelf surface.



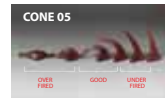
Allow a minimum clearance of 1" between shelves, base, and kiln walls, and 1" around the thermocouple. Stagger shelves for more even heat distribution.



Place self-supporting pyrometric cones on top, middle and bottom shelving for proof of firing temperatures. Allow 5" extra circulation between shelves and/or kiln lid for large flat pieces.



Firing time can be affected by the load of the ware and voltage variances. Unload kiln safely at or below 125°F.



**PYROMETRIC CONES**  
Designed to measure **HEAT WORK** = time+temperature

**TEMPERATURE EQUIVALENTS**

CONE	°F	°C	COLOR	FIRE	CLAY REACTION	GLAZES
10	2345	1285	white		stoneware & porcelain clays	high-fire glazes
9	2300	1260				salt glazes
8	2280	1249				
7	2262	1239				
6	2232	1222			mid-range stoneware & porcelain clays	mid-range glazes
5	2167	1186				
4	2124	1162				
3	2106	1152				
2	2088	1142				
1	2079	1137	yellow			
01	2046	1119				
02	2016	1102				
03	1987	1086				
04	1945	1063			low-fire red & white clays	low-fire glazes
05	1888	1031				
06	1828	998				
07	1789	976				
08	1728	942				
09	1688	920	orange			
010	1657	903				
011	1607	875			sintering occurs	
012	1582	861	cherry red			
013	1539	837				
014	1500	816				
015	1485	807			organic matter burns out	
016	1456	791				
017	1422	772				
018	1360	738	dull red			overglazes/china paints
019	1319	715				
020	1252	678				
021	1200	649				enamels
022	1159	626				
023	1112	600				
024	1087	586			dehydration begins	

GLASSTECHNIQUES

Temperatures listed above are accurate only when the kiln is fired at 100°F/hr during the last 200°F of the firing.  
\*Glass Techniques: Slumping, Fusing and Tacking. For more specific information on these techniques, visit [www.skutt.com](http://www.skutt.com)

**KILNMASTER FIRING SEQUENCE**



**CONE 04 BISQUE WITH PRE-HEAT** \*When entering time, everything to the left of the decimal is hours and everything to the right is minutes. The kiln will heat at a slow rate of 60/hr to 180°F and hold for the amount of time you have entered. 2 hours is common for bone dry greenware which is of average size and thickness.

1. Press the cone fire button.



2. Input desired pre-heat time,\* then press enter.



3. Input cone 04, then press enter.



4. Input slow, then press enter.



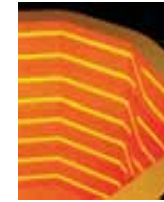
5. Input 0000 for no hold at the end of firing, then press enter.



6. Press review to double check your program.



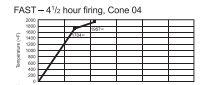
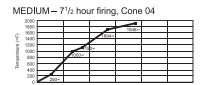
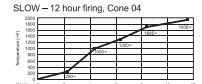
7. Press the start button to begin program.



**IMPORTANT TEMPERATURES**

Water becomes steam: 212°F  
Chemically combined water driven off: 940°F

Quartz inversion: 1058°F  
Carbon burnout: 1200°F  
Clay particles begin to fuse together: 1600°F



*For custom firings such as zinc crystals and fusing glass, see [www.skutt.com](http://www.skutt.com) for details.*

**CONE 05 GLAZE** \*When entering time, everything to the left of the decimal is hours and everything to the right is minutes.

1. Press the cone fire button.

2. Input 0000 for no pre-heat, then press enter.

3. Input cone 05, then press enter.

4. Input medium, then press enter.

5. Input hold time of 0005, then press enter.

6. Press review to double check your program.

7. Press the start button to begin program.