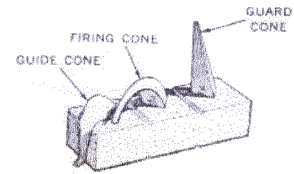


Pyrometric cones are used to determine the combined effect of temperature and time, sometimes called heat work in the firing kiln. Because the deformation of the cones is a function of the rate of heating as well as the temperatures, the temperature charts should only be used as a guide. This reference chart will give an indication on how the deformation of a cone will vary between rates under conditions that are otherwise similar.

DEFORMATION TEMPERATURE CHART - ORTON CONES

STANDARD CONES			MINI CONES	
Heating Rate			Heating Rate	
Cone No.	60°C/hr	150°C/hr	Cone No.	300°C/hr
021	602	614	022	630
020	625	635	021	643
019	668	683	020	666
018	696	717	019	723
017	727	747	018	752
016	764	792	017	784
015	790	804	016	825
014	834	838	015	843
013	869	852	014	870
012	866	884	013	880
011	886	895	012	900
010	887	905	011	915
09	915	923	010	919
08	945	955	09	955
07	973	984	08	983
06	991	999	07	1008
05	1031	1046	06	1023
04	1050	1060	05	1062
03	1086	1101	04	1098
02	1101	1120	03	1131
01	1117	1137	02	1148
1	1136	1154	01	1178
2	1142	1162	1	1184
3	1152	1168	2	1190
4	1168	1186	3	1196
5	1177	1196	4	1209
6	1201	1222	5	1221
7	1215	1240	6	1255
8	1236	1263	7	1264
9	1260	1280	8	1300
10	1285	1305	9	1317
11	1294	1315	10	1330
12	1306	1326	11	1336
13	1321	1346	12	1355
14	1388	1366		



THREE CONE SYSTEM

While a single cone may be used on the shelf to "witness" the firing, its common practice to use three different cones. A group consists of a **Firing Cone** - the desired cone for the ware being produced, the **Guide Cone** - one cone number cooler and the **Guard Cone** - one cone number hotter than the firing cone. These cones are set in the kiln and should be visible through the peephole.

When the **Guide Cone** starts to bend, the ware is approaching maturity. The bending of the **Firing Cone** indicated firing is at the correct point. If the **Guard Cone** has bent, you have exceeded the best time temperature relationship.

STANDARD CONES

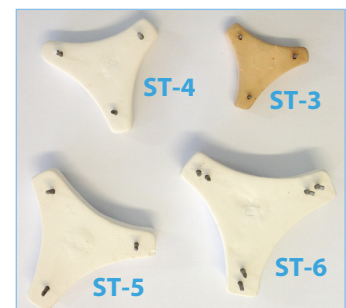
Per box (50) \$27.50
Per pack of 6 \$4.50

MINI CONES

Per box (50) \$22.00
Per pack of 6 \$3.70

STILTS

ST-3	45mm	\$2.50
ST-4	60mm	\$2.90
ST-5	70mm	\$3.65
ST-6	75mm	\$4.85
S2-5	100mm	\$4.85



PROPS: 44.45mm diameter

KP1	25mm	\$1.75	KP6	150mm	\$10.10
KP2	50mm	\$3.30	KP7	175mm	\$11.85
KP3	75mm	\$4.85	KP8	200mm	\$13.30
KP4	100mm	\$6.85	KP10	250m	\$16.70
KP5	125mm	\$8.45			