



CLAYMAN

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INFORMATION

PYROMETRIC CONE & BAR SELECTOR GUIDE

The composition and structure of cones is such that they bend and deform when subjected to heat for a period of time, (i.e. their operation is dependent upon "heat work" and not upon temperature only). They are graded according to the amount of heat they will withstand and are placed upright in holders in the kiln where they can be viewed from the spy hole. Since their deformation characteristics mirror the maturing characteristics of the ceramic products being fired, cones provide an outstanding method of indicating heat work carried out during a firing. It is usual to use a set of three consecutive cones: one to bend below the optimum firing point, one at the optimum firing point and one above. Orton Pyro-bars are supplied for use in kiln-sitters and mirror similar characteristics to that of cones. Following recalibration in 1996 the cones marked * now bend 10-20°C later than previously.

Cone	Heating rate °C per hour		
	60°C	100°C	150°
018	712	722	732
017	736	748	761
016	769	782	794
015	788	802	816
014	807	822	836
013	837	848	859
012	858	869	880
011	873	883	892
09	917	922	928
08	942	948	964
07	973	979	985
06	995	1002	1011
05	1030	1038	1046
04	1060	1066	1070
03	1086	1093	1101
02	1101	1110	1120
01	1117	1127	1137
1	1136	1147	1154
2	1142	1152	1162
3	1152	1160	1168
4	1160	1171	1180
5	1184	1194	1205
6	1220	1230	1241
7	1237	1246	1255
8	1247	1259	1270
9	1260	1270	1280
10	1282	1293	1303
11	1293	1303	1312