

Solution treating and precipitation hardening of copper-beryllium alloys

Alloy	Solution treatment(a)			Aging treatment		
	Temperature		Time(b), h	Temperature		Time, h
	°C	°F		°C	°F	
C17000	775–800	1425–1475	½–3	300–330	575–625	1–3
C17200	775–800	1425–1475	½–3	300–330	575–625	1–3
C17300	775–800	1425–1475	½–3	300–330	575–625	1–3
C17500	900–925	1650–1700	½–3	455–480	850–900	1–3
C17510	900–925	1650–1700	½–3	455–480	850–900	1–3

(a) All alloys are cooled immediately and rapidly from the solution-treating temperature. Thin sections such as strip can be cooled in circulating atmosphere; heavier sections require water quenching. (b) Shorter times may be desirable to minimize grain growth, particularly for thin sections.

Source: *ASM Handbook, Vol. 4, Heat Treating*, ASM International, 1991, p 889