

Copper casting alloys ranked by electrical conductivity

UNS Number	Thermal Conductivity Btu/ft ² /ft/h/°F at 68 F W/m • °K at 293 K	UNS Number	Thermal Conductivity Btu/ft ² /ft/h/°F at 68 F W/m • °K at 293 K	UNS Number	Thermal Conductivity Btu/ft ² /ft/h/°F at 68 F W/m • °K at 293 K	UNS Number	Thermal Conductivity Btu/ft ² /ft/h/°F at 68 F W/m • °K at 293 K	UNS Number	Thermal Conductivity Btu/ft ² /ft/h/°F at 68 F W/m • °K at 293 K
C80100	226 391	C85500	67.0 116	C93500	40.7 70.4	C95200	29.1 50.4	C96600	17.4 30.1
C81100	200 346	C86400	51.0 88.3	C92200	40.2 69.6	C92700	27.2 47.0	C97300	16.5 28.6
C81500	182 315	C85400	50.8 87.9	C95300	36.3 62.8	C93700	27.1 46.9	C96400	16.4 28.5
C81400	150 259	C86500	49.6 85.3	C94300	36.2 62.7	C96200	26.1 45.2	C87300	16.4 28.4
C82000		C85200	48.5 83.9	C90200	36.0 62.3	C99300	25.4 43.9	C87400	
C83400	109 188	C85700		43.2 74.8	C95400	33.9 58.7	C95500	24.2 41.9	C87500
C82200	106 183	C90300	C95410		22.3 38.6		C94800	21.3 36.8	C87800
C82400	76.9 133	C90500	C92900	C95600		C97800	14.7 25.4		
C82500	74.9 130	C83800	41.8 72.4	C93200	33.6 58.2	C96300	13.0 31.4	C97400	15.8 27.3
C82700		C84200		C93400		C94700		C95800	
C82600	73.0 126	C83600	41.6 72.0	C93800	30.2 52.3	C95700	7.0 12.1		
C82800	70.8 123	C84500		C90700		C93900	20.5 35.5		
		C84800	C91600	C94400					
		C90700	C91700	C94500					

Unshaded areas = standard U.S. units
Shaded areas = metric units (SI)