

Lead-Free Hardness Ratings

Copper Alloy UNS No.	Product Description	Temper	Hardness Type	Typical or Minimum	Hardness
C89831	Bismuth Tin Bronze	M07	Brinell 500 kg load	Typical	55
C89844	Bismuth Tin Bronze	M07	Brinell 500 kg load	Typical	55
C89833	Bismuth Tin Bronze	M07	Brinell 500 kg load	Typical	60
C89835	Bismuth Tin Bronze	M07	Brinell 500 kg load	Typical	65
C90300	Tin Bronze	M07	Brinell 500 kg load	Typical	70
C89325	Bismuth Tin Bronze	M07	Brinell 500 kg load	Typical	73
C90800	Tin Bronze	M07	Brinell 500 kg load	Typical	95
C90810	High Tin Bronze	M07	Brinell 500 kg load	Typical	95
C87850	Silicon Brass	M07	Brinell 500 kg load	Minimum	103
C95400	Aluminum Bronze	M07	Brinell 3000 kg load	Typical	170
C95400HT	Aluminum Bronze	TQ50	Brinell 3000 kg load	Typical	177
C95500	Nickel-Aluminum Bronze	M07	Brinell 3000 kg load	Typical	208
C95500HT	Nickel-Aluminum Bronze	TQ50	Brinell 3000 kg load	Typical	228
C95900	Aluminum Bronze	M07	Brinell 3000 kg load	Minimum	241

Note: HT = heat treated.

Lead-Free Machinability Ratings

Copper Alloy UNS No.	Product Description	Machinability
C89831	Bismuth Tin Bronze	85
C89833	Bismuth Tin Bronze	81
C89325	Bismuth Tin Bronze	80
C87850	Silicon Brass	70
C89835	Bismuth Tin Bronze	70
C89844	Bismuth Tin Bronze	70
C90300	Tin Bronze	60
C95400	Aluminum Bronze	60
C95400HT	Aluminum Bronze	50
C95500	Nickel-Aluminum Bronze	50
C95500HT	Nickel-Aluminum Bronze	30
C90800	Tin Bronze	20
C90810	High Tin Bronze	20
C95900	Aluminum Bronze	10

Note: HT = heat treated.