

C95400 Manganese Bronze / C954 Manganese Bronze

C95400 (Manganese Bronze)

Chemical Composition (unless shown as range or min)					
unit %	Cu(1)	Al	Fe	Mn	Ni(1)
min/max	min83.0	10.0~11.5	3.0~5.0	max0.2	max1.5
Nominal	83.2	10.8	4	/	/

(1) Ni value includes Co. Note: Cu + Sum of Named Elements, 99.5% min.



Guide Bush



Straight Bush



Groove Bearing



APPLICATIONS

Bronze Graphite Bearing, WeaPlate, Bushings, High Strength Cast Bronze Bearing. Hydraulic Bearing, Gears Bronze parts, bronze bushing for Valves, Machine Parts, Valve Seats, Valve Guides, Pickling Hooks, Heavily Pump Parts, Sleeve Bearings for Excavators, Construction machinery.

C95400Manganese Bronze / C954 Manganese Bronze

MECHANICAL PROPERTIES:

Te+AA28:AQ53mper	Section Size	Cold Work	Typ/ Min	Temp	Tensile Strength	Yield Strength (0.5% ext. under load)	Yield Strength (0.2% offset)	Yield Strength (0.05% offset)	El	Rockwell Hardnes s	Vickens Hard.	Brinell Hard.	Shear Strength	Fatigue Strength *	Izod Impact Strength
	in	%	/	F	ksi	ksi	ksi	ksi	%	B C F 30T	500ksi	500/3000	ksi	kai	FT-LB
	mm			C	Mpa	Mpa	Mpa	Mpa					Mpa	Mpa	J
As Sand Cast															
M01	0	0	TYP	68	85	35			18		25	170	47	28	16
	0			20	586	241			18		172	170	324	193	22
As Centrifugal Cast															
TQ50			SMIN	68	90	45			6			190			
				20	620	310			6			190			
M02	0	0	SMIN	68	75	30			12			150			
	0			20	515	205			12			150			
As Continuous Cast															
TQ50			SMIN	68	95	45			10						
				20	655	310			10						
M07	0	0	SMIN	68	85	32			12						
	0			20	586	221			12						
As Permanent Mold Cast															
M05	0	0	SMIN	68	100	40			10						
	0			20	690	275			10						
As Sand Cast															
TQ50	0	0	TYP	68	105	54			8			195	50	35	11
				20	724	372			8			195	345	241	15
M01			SMIN	68	75	30			12			150			
				20	517	207			12			150			
M01			SMIN	68	75	30			12			150			
				20	515	205			12			150			
M01			SMIN	68	75	30									
				20	517	207									
As Permanent Mold Cast															
M05			TYP	68	105	46			11						
				20	725	320			11						
As Sand Cast															
TQ50			MIN	68	90	45			6			190			
				20	620	310			6			190			
TQ50			SMIN	68	90	45			6			190			
				20	621	310			6			190			

*Fatigue Strength: 100×10^6 cycles, unless indicated as $[N] \times 10^6$.
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