

C67300

Wieland Concast produces C67300 manganese bronze as a standard-stocked alloy offering exceptional strength, wear, and corrosion resistance.

Product description	Manganese bronze
Tempers	H02 half hard
Solids	3/8" to 3" O.D.
Hex	Consult mill
Standard lengths	144"*

*Consult mill for other lengths

Typical uses:

Fasteners:

- fasteners, lead screw nuts

Industrial:

- bearings, bushings, drive shafts, gears/cams, idler pins, piston heads, propeller shafts, pump parts, seal rings, shaft bushings, sleeve bearings, spindles, thrust bearings, wear plates, clutch bearings

Marine:

- hardware, valve seats

Other:

- connecting rods

Wieland Concast certifications

- AS9100:2016-certified quality management system
- ISO 9001:2015-certified quality management system



C67300 overview

Chemical composition

Cu (%)	Pb (%)	Sn (%)	Zn (%)	Fe (%)	Ni (%) ¹	Al (%)	Mn (%)	Si (%)
58.00-63.00	0.40-3.00	0.30	Remain	0.50	0.25	0.25	2.00-3.50	0.50-1.50

Chemical composition according to SAE J463

¹Ni value includes Co.

Note: Single values represent maximums.

Mechanical properties

Tensile strength, min		Yield strength, at 0.5% extension under load, min		Elongation, in 4x diameter or specimen thickness, min	Rockwell "B" hardness	Remarks
ksi	MPa	ksi	MPa	%	min HRB	
65	448	40	276	12	70	Size range: up to 1" inclusive
58	400	35	241	15	70	Size range: over 1" to 3" inclusive
55	380	30	205	18	65	Size range: over 3"

Mechanical properties according to SAE J463

Stocked size schedule

Size O.D.	Weight Per Inch	Weight Per Foot	Size O.D.	Weight Per Inch	Weight Per Foot	Size O.D.	Weight Per Inch	Weight Per Foot
0.3750	0.033	0.397	1.1875	0.334	4.008	2.0000	0.951	11.409
0.5000	0.066	0.787	1.2500	0.358	4.297	2.1250	1.035	12.421
0.5620	0.073	0.870	1.3750	0.452	5.427	2.2500	1.160	13.925
0.7500	0.134	1.603	1.4375	0.487	5.840	2.5000	1.433	17.192
0.8750	0.175	2.105	1.5000	0.535	6.425	2.7500	1.733	20.801
1.0000	0.237	2.848	1.5625	0.578	6.936	3.0000	2.063	24.755
1.0625	0.266	3.190	1.7500	0.731	8.775			
1.1250	0.301	3.611	1.8750	0.835	10.025			

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