LUBRON® ALLOY	GENERIC DESCRIPTION	TYPICAL PHYSICAL PROPERTIES									NOMINAL CHEMICAL COMPOSITION (%)												TYPICAL APPLICATIONS AND PERFORMANCE CHARACTERISTICS	COMPARATIVE SPECIFICATIONS				LUBRON® ALLOY
		Tensile Strength (ksi)	Yield Strength (ksi)	Compression Strength .001 in. set/in. (ksi)	Elongation (% in 2 in.)	Brinell Hardness (3000 kg)	Density (lbs./in.^{3} @ 68°F)	Recommended Bearing Load (psi)[2]	Maximum Recommended PV (psi·fpm)	Maximum Operating Temperature (°F)	Cu	Sn	Pb	Zn	Ni	Fe	Al	Mn	Si	C	Mo	Cr		UNS	ASTM[3]	SAE	INGOT	
862	Manganese Bronze	95	48	50	20	180	0.288	8000	72000	392	64			26		3	4	3					High strength bearing alloy for heavy load, slow speed applications. Suitable for marine environments.	C86200	B271-C86200 B505-C86200 B584-C86200	430A CA862	423	862
863	Manganese Bronze	115	65	60	15	225	0.283	8000	72000	392	63			25		3	6	3					High Strength bearing alloy for extra heavy duty applications requiring high compressive strength and fatigue resistance. Not recommended for marine use.	C86300	B22-C86300 B271-C86300 B505-C86300 B584-C86300	430B CA863	424	863
905	Tin Bronze	45	22	15	25	75[1]	0.315	5000	30000	338	88	10		2									Structural bearing alloy for moderate loads and low speeds. Good corrosion and wear resistance.	C90500	B22-C90500 B271-C90500 B505-C90500 B584-C90500	62 CA905	210	905
911	Tin Bronze	35	25	18	2	135	0.305	5000	30000	338	84	16											Structural bearing alloy for moderate loads in contact with hardened steels at low speeds.	C91100	B22-C91100		195	911
932	High Leaded Tin Bronze	35	18	14	20	65[1]	0.322	4000	24000	338	83	7	7	3									General utility bearing alloy for moderate loads and higher speeds. Excellent anti-frictional properties. Good wear resistance, economy and availability.	C93200	B271-C93200 B505-C93200 B584-V93200	660 CA932	305	932
954	Aluminum Bronze	85	35	22	18	170	0.269	7250	48000	572	85					4	11						High strength bearing alloy with good resistance to impact, fatigue and deformation. Readily available.	C95400	B148-C95400 B271-C95400 B505-C95400	701B CA954	415	954
955	Nickel Aluminum Bronze	100	44	30	12	195	0.272	10000	72000	572	81				4	4	11						High strength alloy with excellent resistance to corrosion and fatigue. Widely used in marine environments and higher temperatures. Resistant to cavitation and erosion.	C95500	B148-C95500 B271-C9500 B505-C95500	701C CA955	415	955
958	Alpha Nickel Aluminum Bronze	95	38	28	25	159	0.276	8000	60000	572	81				5	4	9	1					High strength alloy most suitable for marine environments. Optimum resistance to seawater and dealloying corrosion. Generally given a temper anneal heat treatment resulting in improved ductility.	C95800	B148-C95800 B271-C95800 B505-C95800	CA958	415	958
17-4	Pecipitation Hardened Stainless Steel H900 H1025 H1100 H1150	 190 155 140 135	 170 145 115 105	-	 10 12 13 14	 388 331 302 277	0.280	40000	-	600	3-5				3-5	73		1	1	.07		15-17.5	High Strength age hardened stainless steel. Corrosion Resistance from good to great depending on heat treatment. Strength and Hardness dependent on heat treatment. To be used with liner systems only.	S17400	A564-630 A705-630	17-4	NA	174
13-8	Pecipitation Hardened Stainless Steel H950 H1000 H1050 H1100 H1150	 220 205 175 150 135	 205 190 165 135 90	-	 10 10 12 14 14	 430 400 372 313 283	0.282	40000	-	600					7.5-8.5	75	1	0.1	0.1	0.05	2-2.5	12.25-13.25	Ultra High Strength age hardened stainless steel. Corrosion Resistance from good to great depending on heat treatment. Strength and Hardness dependent on heat treatment. To be used with liner systems only.	S13800	A564-XM-13 A705-XM-13	13-8	NA	138
GA50	Meehanite	50		180	2	220	0.256	8,000	72,000	1,100						94.6		1	1.4	3			General utility cast iron produced by the Meehanite process. Widely used for moderate to high temperature applications requiring high strength and wear resistance.	F13501	A48(50)		NA	GA50

Notes:

1. Brinell Hardness (500 Kg)
2. Maximum recommended values for temperatures up to 250F. The physical strength of bronze alloys is reduced at elevated temperatures.
3. ASTM B584 is a composite specification for general applications. Other specification numbers are used to define end uses or methods of manufacture:
   B22 - "Bronze Castings for Bridges and Turntables"
   B148 - "Aluminum Bronze Sand Castings"
   B271 - "Copper-Base Alloy Centrifugal Castings"
   B505 - "Copper-Base Alloy Continuous Castings"