

Chemical Composition		SB	SB	SB-KAST	SB-DUR	SB-KAST	SB
% (by weight)		Lagerbronze II	Lagerbronze I	12.15		10	DYN
Cu		79	77,5	86	61	80	-
Sn		5	8	12	0,5	-	8
Pb		13	11	-	0,5	-	-
Ni		3	3,5	2	0,5	5,5	75,7
Zn					32		8
Al					2	10	
Mn					2,5		2
Fe					1	4,5	
Ag							6
C							0,3
Technological Characteristics*)		SB	SB	SB-KAST	SB-DUR	SB-KAST	SB
		Lagerbronze II	Lagerbronze I	12.15		10	DYN
Hardness and warm hardness HB 10/1000/10	20°C	67,5	86,3	110	130	170	194
	50°C	65,8	80,3	108	128	169	189
	100°C	64,9	78,6	106	125	164	184
	150°C	62,6	76,9	106	124	162	181
Yield stress $\sigma_{0,2}$ N/mm ²	20°C	109	138	180	210	310	485
	100°C	95,2	116	170	200	300	484
Tensile strenght σ_{zB}	N/mm ²	192	209	300	450	700	428
Tension strain	%	6,4	2,1	10	17	13	9
Young´s modulus	N/mm ²	84000	85100	9500	103000	135000	159000
Density	kg/dm ³	8,78	8,91	8,65	8,4	8,9	8,8
Linear expansion coefficient 20-100°C(mm/mm ·°C) x 10 ⁻⁶		18,4	18,2	18,4	20,2	15,5	15,7
Operating temperature	°C	150	150	150	150	200	400
Spezific surface load p_{max}	N/cm ²	50	75	90	110	150	200
Application Notes		Good sliding and dry-running characteristics at average and elevated static, dynamic and thermal loading. Lubrication with process medium possible.	Good sliding characteristics at elevated static, dynamic and thermal loading. High resistance against wear and corrosion.	Elevated resistance against wear. Resistant to corrosion and sea water	Tough and hard alloy for highest loading at low sliding speeds. High thermal load capacity.	High strength characteristics, high load capacity with good wear characteristics. Sufficient lubrication required. High impact loads possible.	High thermal and corrosive loading. Lubrication with process medium.