

# Technical Data

## STANDARD BRONZE ALLOYS\*

GRADE	ASTM		DIN		COMPOSITION		MECHANICAL PROPERTIES					APPLICATION
	Standard	Alloy No.	Standard	Alloy No.	ASTM % of weight	DIN % of weight	Density g/cm <sup>3</sup>	Minimum Tensile strength MPa [ksi]	Minimum Yield strength MPa [ksi]	Minimum Elong. % (in 50 mm)	Minimum Hardness HB	
B 584 B 271 B 505	C93200	1705	2.1090.01 2.1090.03 2.1090.04	Cu 83 Sn 7 Pb 7 Zn 3	Cu 83 Sn 7 Pb 6,5 Zn 3,5	8,85	207 [30]	97 [14]	15	75	Standard material fulfills most application requirements	
B 584 B 271 B 505	C95500	1714	2.0975.01 2.0975.02 2.0975.03 2.0975.04	Cu 81 Ni 4 Fe 4 Al 11	Cu 79,5 Ni 5 Fe 4,75 Al 9,5	7,50	620 [90]	275 [40]	6	190	High load capacity with maximum corrosion resistance	
B 584 B 271 B 505	C86300	1709	2.0598.01 2.0598.02 2.0598.03	Cu 61 Zn 27 Fe 3 Al 6 Mn 3	Cu 63,5 Zn balance Fe 2,75 Al 5 Mn 3,75	7,70	758 [110]	414 [60]	12	210	Highest load capacity	

For applications where standard alloys are not suitable, we are able to supply special materials

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Maximum values depend on the chemical composition and the application engineering department should be consulted.

\* The above shown figures are based on ASTM B271 (centrifugal casting) and intended for general information only. Application engineering team will make the appropriate selection based on your application data. The feasibility of some standard alloys depends upon the dimensional and geometric requirements of each project. Please contact Applications Engineering for detailed information. Density depends on surrounding temperature and percentage of each alloy component in the material.