

## BABBITT TYPES & APPLICATION

Babbitt Type	Ultimate Strength in Compression psi (Mpa)		Brinell Hardness		Melting point °F (°C)	Composition %					Application
	68°F (20°C)	212°F (100°C)	68°F (20°C)	212°F (100°C)		Sn	Sb	As	Cu	Pb	
ASTM B23 Alloy 2	14 900 (102.7)	8700 (60)	24.5	12	466 (241)	89	7.5		3.5		High speed, High pressure, High temperature, Excellent corrosion resistance, Easy bonding, Less tendency for segregation and welding, Good for steady load conditions in steam and gas turbines, electric motors, blowers, and pumps
ASTM B23 Alloy 3	17 600 (121.3)	9900 (68.3)	27	14.5	464 (240)	84	8		8		Heavy duty, High Speed, High pressure, High shock
ASTM B23 Alloy 7	15 650 (107.9)	6150 (42.4)	22.5	10.5	464 (240)	10	15	0.5		R	Softer than the tin based Babbitt's, Less tendency to score a shaft, Lower pressure, Lower Speed, Lower thermal conductivity
ASTM B23 Alloy 15	15 500 (107)	6100 (42)	21	13	479 (248)	1	16	1		R	Heavy duty, High Speed, High pressure
Tegostar ECKA	19 300 (133)	10 300 (71)	26	14	458 (237)	81	12		6		Same as ASTM B23 Alloy 2, without trace of Lead (meets European REACH requirements), Max static pressure capacity up to high hydrodynamic sliding speeds, Very high fatigue strength, Resistant against high frequency vibration, Minimum strain in creep and then optimum dimensional stability
Tegostar 738	19 300 (133)	10 300 (71)	26	14	458 (237)	81	12		6		Max static pressure capacity up to high hydrodynamic sliding speeds, Good dynamic capacity for high frequency vibration, good capacity for impact, minimum strain in creep and then optimum dimensional stability (meets European REACH requirements)
QQ-T-390A Alloy 10	15 100 (104)	6050 (41)	25	15	459 (237)	1	16		0.6	R	Good for Steady heavy load, High speed especially with low thickness, Low corrosion resistant