

## BABBITT ALLOYS



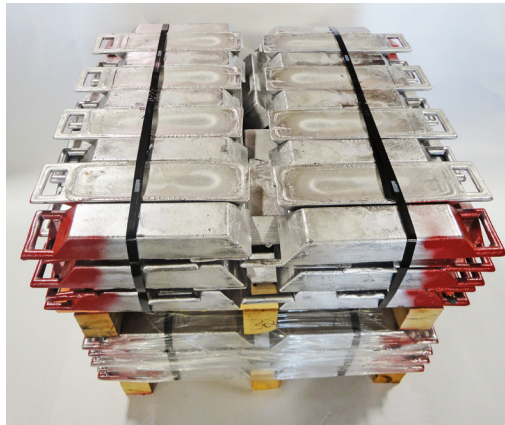
**Mars Metal Company, Specialty Casting Division** supplies various grades of Babbitt alloys which include leaded, lead-free and nickel bearing. Our Babbitt alloys are available in bar and ingot form. Further, Mars Metal supplies custom and discontinued Babbitt alloys.

Custom orders are available upon request and always welcome. Minimum order will apply. Please contact us for your specialized requirements.

*MSDS Sheets are available upon request*

### **MARS METAL CARRIES THE FOLLOWING BABBITT ALLOYS:**

- Leaded
- Lead-free
- Nickel Bearing
- ASTM B-23 Grade #1
- ASTM B-23 Grade #2
- ASTM B-23 Grade #3
- ASTM B-23 Grade #7
- ASTM B-23 Grade #8
- ASTM B-23 Grade #11
- ASTM B-23 Grade #13
- ASTM B-23 Grade #15
- Traylor #1 (60Sn/24Pb/14Sb/2Cu)
- Grade #5 (65Sn/18Pb/15Sb/2Cu)
- Grade #6 (20Sn/63.5Pb/15Sb/1.5Cu)
- Grade #11R (88.5Sn/7.5Sb/3Cu/1Cd)
- Bar and ingot form
- Custom and discontinued Babbitt alloys available
- Minimum order quantities may apply



**Of Excellence**

1.800.381.5335

sales@marsmetal.com

www.marsmetal.com



Scan with your mobile/smart phone barcode reader.

# Mars Metal

## Speciality Casting Division



of Excellence

1.800.381.5335  
 sales@marsmetal.com  
 www.marsmetal.com



Scan with your mobile/smart phone barcode reader.

### SPECIFICATIONS ASTM B-23 ALLOYS

CHEMICAL COMPOSITION <sup>1</sup> (%)	TIN-BASE					LEAD-BASE				
	ALLOY NUMBER <sup>2</sup> (GRADE)									
	1	2	3	11	7	8	13	15		
(SW) TIN	90.0 to 92.0	88.0 to 90.0	83.0 to 89.0	86.0 to 89.0	9.3 to 10.7	4.5 to 5.5	5.5 to 6.5	0.8 to 1.2		
(SB) ANTIMONY	4.0 to 5.0	7.0 to 8.0	7.5 to 8.5	6.0 to 7.5	14.0 to 16.0	14.0 to 16.0	9.5 to 10.5	14.5 to 17.5		
(PB) LEAD	0.35	0.35	0.35	0.50	remainder <sup>3</sup>	remainder <sup>3</sup>	remainder <sup>3</sup>	remainder <sup>3</sup>		remainder <sup>3</sup>
(CU) COPPER	4.0 to 5.0	3.0 to 4.0	7.5 to 8.5	5.0 to 6.5	0.50	0.50	0.50	0.6		0.6
(FE) IRON	0.08	0.08	0.08	0.08	0.10	0.10	0.10	0.10		0.10
(AS) ARSENIC	0.10	0.10	0.10	0.10	0.30 to 0.60	0.30 to 0.60	0.25	0.8 to 1.4		
(BI) BISMUTH	0.08	0.08	0.08	0.08	0.10	0.10	0.10	0.10		0.10
(ZN) ZINC	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005		0.005
(AL) ALUMINIUM	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005		0.005
(CD) CADMIUM	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05		0.05
TOTAL NAMED ELEMENTS, Min.	99.80	99.80	99.80	99.80						

1. All values not given as ranges are maximum unless shown otherwise
2. Alloy Number 9 was discontinued in 1946 and numbers 4, 5, 6, 10, 11, 12, 16 and 19 were discontinued in 1959.
3. To be determined by difference