



*A Century of Innovation*

**AEROSPACE**  
ALUMINIUM BRONZES  
& OTHER COPPER ALLOYS



**AMPCO METAL**    **EXCELLENCE IN ENGINEERED ALLOYS**



## AMPCO® and AMPCOLOY® alloys for the Aerospace Industry

STANDARD	Alloy number & designation	AMPCO® Alloy	Tensile Rm, KSI	Tensile Rm, MPa	Yield Rp0.2, KSI	Yield Rp0.2, MPa	Elongation A5 or 4D %	Hardness HB 10/30	Hardness Rockwell	USA	EUROPE	CHINA
AMS 4533	C17200	AMPCOLOY® 83								•	•	•
AMS 4534	CuBe2									•	•	•
AMS 4535			60 to 185 (*)	413 to 1275 (*)	20 to 160 (*)	140 to 1100 (*)	20% to 4% (*)	90 to 360 (*)	45 to 37 (*)	X	X	X
AMS 4650										•	•	•
AMS 4651										•	•	•
AMS 4590	C63020 CuAl11Ni5Fe5	AMPCO® M4	130 to 135	900 to 930	90 to 100	620 to 690	6	255	26 HRC	X	X	X
AMS 4616	C65620 CuSi3Zn3Fe2	CuSi3Zn3Fe2	56	390	20	140	30	90	55 HRB	•	•	•
AMS 4633	C64200	AMPCO® 642								X	•	•
AMS 4634	CuAl7Si1.8		90	620	50	345	30	166	86 HRB	X	•	•
AMS 4635	C62300 CuAl10Fe3	AMPCO® 15	95	655	50	345	25	174	88 HRB	X	•	•
AMS 4640	C63000 CuAl10Ni5Fe4	AMPCO® 45	100 to 110	690 to 760	50 to 68	345 to 470	10	187 to 241		X	X	X
AMS 4862	C86300 CuAl10Fe3	AMPCO® 863	110	760	60	415	14	192	99 HRB	•	•	•
AMS 4880	C95510 CuAl10Ni5Fe3	AMPCO® 4880	95 to 105	655 to 725	50 to 62.5	345 to 430	9	187 to 241		X	X	X
AMS 4881	C95520 CuAl11Ni5Fe5	AMPCO® 4881	120 to 130	830 to 900	85 to 95	590 to 655	3	255	26 HRC	X	X	•
BSB 23 (DTD 197)	CuAl11Ni5Fe5 CA104 UA11N	CuAl11Ni5Fe5	94 to 101	690 to 760	46 to 58	320 to 400	10	179 to 255		•	•	X
NFL 14702		AMPCO® 724	104 to 113	720 to 780	72 to 86	500 to 590	7 to 10	200 to 215		•	•	•
NFL 14707	CuZn19Al6MnFe	UZ19Al6	113 to 120	780 to 830	78 to 85	540 to 590	7 to 10	225		•	X	X
ASNA 3405	CuNi2Si	CuNi2Si	71 to 94	490 to 650	49 to 86	340 to 590	8 to 10	160 to 195		•	•	•

The above are nominal values. If specific minimum figures are required, please contact your local AMPCO METAL representative.

(\*) depending on the heat treatment from the soft condition to aging

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FOR MORE INFORMATION GO TO:  
[www.ampcometal.com](http://www.ampcometal.com)





AMPCO METAL has a long and successful association with the aerospace sector of the economy. This distinct market position has been achieved through a **worldwide network** of manufacturing and distribution facilities in Europe, Asia and the United States. Our distinct line of AMPCO® alloys for the aerospace sector include a variety of aluminum bronze, manganese bronze and AMPCOLOY® beryllium copper alloys. Our global position of premium bronze and beryllium copper alloys ensures that material is available when and where our aerospace customer base requires them.

In conjunction with approvals from various aerospace manufacturers worldwide, AMPCO METAL has also earned the prestigious **AS 9120 standard** for the distribution of alloys within the aerospace sector. These approvals, along with ISO 9001:2008, illustrate our commitment to delivering the **quality and service** expected from the aerospace sector customer base.



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