

ALUMINUM AND ALUMINUM ALLOYS

UNIFIED NUMBER	DESCRIPTION	CHEMICAL COMPOSITION	CROSS REFERENCE SPECIFICATIONS
A01001	Aluminum Foundry Alloy, Ingot	Al 99.00 min Cu 0.10 max Fe 0.6-0.8 Si 0.15 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Mn+Cr+Ti+V 0.025 max	AA 100.1 ASTM B179 (100.1)
A01301	Aluminum Foundry Alloy, Ingot	Al 99.30 min Cu 0.10 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 2.5 min, Mn+Cr+Ti+V 0.025 max	AA 130.1 ASTM B179 (130.1)
A01501	Aluminum Foundry Alloy, Ingot	Al 99.50 min Cu 0.05 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 2.0 min, Mn+Cr+Ti+V 0.025 max	AA 150.1 ASTM B179 (150.1)
A01601	Aluminum Foundry Alloy, Ingot	Al 99.60 min Fe 0.25 max Si 0.10 max Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 2.0 min, Mn+Cr+Ti+V 0.025 max	AA 160.1
A01701	Aluminum Foundry Alloy, Ingot	Al 99.70 min Zn 0.05 max Other: each 0.03 max, total 0.10 max, Fe/Si ratio 1.5 min, Mn+Cr+Ti+V 0.025 max	AA 170.1 ASTM B179 (170.1)
A02010	Aluminum Foundry Alloy, Casting	Ag 0.40-1.0 Al rem Cu 4.0-5.2 Fe 0.15 max Mg 0.15-0.55 Mn 0.20-0.50 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 201.0 AMS 4233 ASTM B26 (201.0); B275 ; B618 (201.0); B917 (201.0) SAE J 452 (382)
A02012	Aluminum Foundry Alloy, Ingot	Ag 0.40-1.0 Al rem Cu 4.0-5.2 Fe 0.10 max Mg 0.20-0.55 Mn 0.20-0.50 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 201.2 ASTM B179 (201.2); B275 SAE J 452 (382)
* A02020	Aluminum Foundry Alloy, Casting	Ag 0.40-1.0 Al rem Cr 0.20-0.6 Cu 4.0-5.2 Fe 0.15 max Mg 0.15-0.55 Mn 0.20-0.8 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 202.0
* A02022	Aluminum Foundry Alloy, Ingot	Ag 0.40-1.0 Al rem Cr 0.20-0.6 Cu 4.0-5.2 Fe 0.10 max Mg 0.20-0.55 Mn 0.20-0.8 Si 0.10 max Ti 0.15-0.35 Other: each 0.05 max, total 0.10 max	AA 202.2
A02030	Aluminum Foundry Alloy, Casting	Al rem Co 0.20-0.30 Cu 4.5-5.5 Fe 0.50 max Mg 0.10 max Mn 0.20-0.30 Ni 1.3-1.7 Sb 0.20-0.30 Si 0.30 max Ti 0.15-0.25 Zn 0.10 max Zr 0.10-0.30 Other: each 0.05 max, total 0.20 max, plus Ti+Zr 0.50 max	AA 203.0 AMS 4225 ASTM B917 (203.0)
A02032	Aluminum Foundry Alloy, Ingot	Al rem Co 0.20-0.30 Cu 4.8-5.2 Fe 0.35 max Mg 0.10 max Mn 0.20-0.30 Ni 1.3-1.7 Sb 0.20-0.30 Si 0.20 max Ti 0.15-0.25 Zn 0.10 max Zr 0.10-0.30 Other: each 0.05 max, total 0.20 max, plus Ti+Zr 0.50 max	AA 203.2
A02040	Aluminum Foundry Alloy, Casting	Al rem Cu 4.2-5.0 Fe 0.35 max Mg 0.15-0.35 Mn 0.10 max Ni 0.05 max Si 0.20 max Sn 0.05 max Ti 0.15-0.30 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 204.0 ASTM B108 (204.0); B26 (204.0); B618 (204.0); B917 (204.0)
A02042	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-4.9 Fe 0.10-0.20 Mg 0.20-0.35 Mn 0.05 max Ni 0.03 max Si 0.15 max Sn 0.05 max Ti 0.15-0.25 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 204.2 ASTM B179 (204.2)
A02060	Aluminum Foundry Alloy, Casting	Al rem Cu 4.2-5.0 Fe 0.15 max Mg 0.15-0.35 Mn 0.20-0.50 Ni 0.05 max Si 0.10 max Sn 0.05 max Ti 0.15-0.30 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 206.0 AMS 4237; 4244 ASME SFA5.10 (R206.0) AWS A5.10 (R206.0) SAE J 452
A02062	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.2-5.0 Fe 0.10 max Mg 0.20-0.35 Mn 0.20-0.50 Ni 0.03 max Si 0.10 max Sn 0.05 max Ti 0.15-0.25 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 206.2

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* A02080	Aluminum Foundry Alloy, Casting	Al rem Cu 3.5-4.5 Fe 1.2 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 2.5-3.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 208.0 ASTM B108 (208.0); B26 (208.0); B275 ; B618 (208.0) SAE J 452; J452 (380)
* A02081	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.5-4.5 Fe 0.9 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 2.5-3.5 Ti 0.25 max Zn 1.0 max Other: total 0.50 max	AA 208.1 ASTM B179 (208.1); B275
* A02082	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.5-4.5 Fe 0.8 max Mg 0.03 max Mn 0.30 max Si 2.5-3.5 Ti 0.20 max Zn 0.20 max Other: total 0.30 max	AA 208.2 ASTM B179 (208.2)
* A02130	Aluminum Foundry Alloy, Casting	Al rem Cu 6.0-8.0 Fe 1.2 max Mg 0.10 max Mn 0.6 max Ni 0.35 max Si 1.0-3.0 Ti 0.25 max Zn 2.5 max Other: total 0.50 max	AA 213.0 ASTM B108 (213.0)
* A02131	Aluminum Foundry Alloy, Ingot	Al rem Cu 6.0-8.0 Fe 0.9 max Mg 0.10 max Mn 0.6 max Ni 0.35 max Si 1.0-3.0 Ti 0.25 max Zn 2.5 max Other: total 0.50 max	AA 213.1
* A02220	Aluminum Foundry Alloy, Casting	Al rem Cu 9.2-10.7 Fe 1.5 max Mg 0.15-0.35 Mn 0.50 max Ni 0.50 max Si 2.0 max Ti 0.25 max Zn 0.8 max Other: total 0.35 max	AA 222.0 ASTM B108 (222.0); B26 (222.0); B275 ; B618 (222.0); B917 (222.0) SAE J 452 (34)
* A02221	Aluminum Foundry Alloy, Ingot	Al rem Cu 9.2-10.7 Fe 1.2 max Mg 0.20-0.35 Mn 0.50 max Ni 0.50 max Si 2.0 max Ti 0.25 max Zn 0.8 max Other: total 0.35 max	AA 222.1 ASTM B179 (222.1) SAE J 452 (34)
* A02240	Aluminum Foundry Alloy, Casting	Al rem Cu 4.5-5.5 Fe 0.10 max Mn 0.20-0.50 Si 0.06 max Ti 0.35 max V 0.05-0.15 Zr 0.10-0.25 Other: each 0.03 max, total 0.10 max	AA 224.0 AMS 4226
* A02242	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.5-5.5 Fe 0.04 max Mn 0.20-0.50 Si 0.02 max Ti 0.25 max V 0.05-0.15 Zr 0.10-0.25 Other: each 0.03 max, total 0.10 max	AA 224.2
* A02380	Aluminum Foundry Alloy, Casting	Al rem Cu 9.0-11.0 Fe 1.5 max Mg 0.15-0.35 Mn 0.6 max Ni 1.0 max Si 3.5-4.5 Ti 0.25 max Zn 1.5 max Other: total 0.50 max	AA 238.0
* A02381	Aluminum Foundry Alloy, Ingot	Al rem Cu 9.0-11.0 Fe 1.2 max Mg 0.20-0.35 Mn 0.6 max Ni 1.0 max Si 3.5-4.5 Ti 0.25 max Zn 1.5 max Other: total 0.50 max	AA 238.1 ASTM B275
* A02382	Aluminum Foundry Alloy, Ingot	Al rem Cu 9.5-10.5 Fe 1.2 max Mg 0.20-0.35 Mn 0.50 max Ni 0.50 max Si 3.5-4.5 Ti 0.20 max Zn 0.50 max Other: total 0.50 max	AA 238.2
A02400	Aluminum Foundry Alloy, Casting	Al rem Cu 7.0-9.0 Fe 0.50 max Mg 5.5-6.5 Mn 0.30-0.7 Ni 0.30-0.7 Si 0.50 max Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 240.0
A02401	Aluminum Foundry Alloy, Ingot	Al rem Cu 7.0-9.0 Fe 0.40 max Mg 5.6-6.5 Mn 0.30-0.7 Ni 0.30-0.7 Si 0.50 max Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 240.1
A02420	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 3.5-4.5 Fe 1.0 max Mg 1.2-1.8 Mn 0.35 max Ni 1.7-2.3 Si 0.7 max Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max	AA 242.0 ASTM B108 (242.0); B26 (242.0); B275 ; B618 (242.0); B917 (242.0) SAE J 452 (39)
A02421	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.25 max Cu 3.5-4.5 Fe 0.8 max Mg 1.3-1.8 Mn 0.35 max Ni 1.7-2.3 Si 0.7 max Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max	AA 242.1 ASTM B179 (242.1); B275
A02422	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.5-4.5 Fe 0.6 max Mg 1.3-1.8 Mn 0.10 max Ni 1.7-2.3 Si 0.6 max Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA 242.2 ASTM B179 (242.2)

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* A02430	Aluminum Foundry Alloy, Casting	Al rem Cr 0.20-0.40 Cu 3.5-4.5 Fe 0.40 max Mg 1.8-2.3 Mn 0.15-0.45 Ni 1.9-2.3 Si 0.35 max Ti 0.06-0.20 V 0.06-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 243.0 AMS 4224
* A02431	Aluminum Foundry Alloy, Ingot	Al rem Cr 0.20-0.40 Cu 3.5-4.5 Fe 0.30 max Mg 1.9-2.3 Mn 0.15-0.45 Ni 1.9-2.3 Si 0.35 max Ti 0.06-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 243.1
* A02490	Aluminum Foundry Alloy, Casting	Al rem Cu 3.8-4.6 Fe 0.10 max Mg 0.25-0.50 Mn 0.25-0.50 Si 0.05 max Ti 0.02-0.35 Zn 2.5-3.5 Other: each 0.03 max, total 0.10 max	AA 249.0
* A02492	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.8-4.6 Fe 0.07 max Mg 0.30-0.50 Mn 0.25-0.50 Si 0.05 max Ti 0.02-0.12 Zn 2.5-3.5 Other: each 0.03 max, total 0.10 max	AA 249.2
A02950	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.0 max Mg 0.03 max Mn 0.35 max Si 0.7-1.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max	AA 295.0 ASTM B26 (295.0); B275 ; B618 (295.0); B917 (295.0) SAE J 452 (38)
A02951	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.03 max Mn 0.35 max Si 0.7-1.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max	AA 295.1 ASTM B179 (295.1); B275
A02952	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.03 max Mn 0.30 max Si 0.7-1.2 Ti 0.20 max Zn 0.30 max Other: each 0.05 max, total 0.15 max	AA 295.2 ASTM B179 (295.2)
A02960	Aluminum Foundry Alloy, Casting	Al rem Cu 4.0-5.0 Fe 1.2 max Mg 0.05 max Mn 0.35 max Ni 0.35 max Si 2.0-3.0 Ti 0.25 max Zn 0.50 max Other: total 0.35 max	AA 296.0 ASTM B108 (296.0); B917 (296.0) SAE J 452
A02961	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.9 max Mg 0.05 max Mn 0.35 max Ni 0.35 max Si 2.0-3.0 Ti 0.25 max Zn 0.50 max Other: total 0.35 max	AA 296.1 ASTM B179 (296.1)
A02962	Aluminum Foundry Alloy, Ingot	Al rem Cu 4.0-5.0 Fe 0.8 max Mg 0.03 max Mn 0.30 max Si 2.0-3.0 Ti 0.20 max Zn 0.30 max Other: each 0.05 max, total 0.15 max	AA 296.2 ASTM B179 (296.2)
A03010	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-3.5 Fe 0.8-1.5 Mg 0.25-0.50 Mn 0.50-0.8 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 301.0
A03011	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-3.5 Fe 0.8-1.2 Mg 0.30-0.50 Mn 0.50-0.8 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 301.1
A03020	Aluminum Foundry Alloy, Casting	Al rem Cu 2.8-3.2 Fe 0.25 max Mg 0.7-1.2 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 302.0
A03021	Aluminum Foundry Alloy, Ingot	Al rem Cu 2.8-3.2 Fe 0.20 max Mg 0.8-1.2 Ni 1.0-1.5 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 302.1
A03030	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.8-1.5 Mg 0.45-0.7 Mn 0.50-0.8 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 303.0
A03031	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.8-1.2 Mg 0.50-0.7 Mn 0.50-0.8 Si 9.5-10.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA 303.1
* A03050	Aluminum Foundry Alloy, Casting	Al rem Cr 0.25 max Cu 1.0-1.5 Fe 0.6 max Mg 0.10 max Mn 0.50 max Si 4.5-5.5 Ti 0.25 max Zn 0.35 max Other: each 0.05 max, total 0.15 max	AA 305.0
* A03052	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.14-0.25 Mn 0.05 max Si 4.5-5.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA 305.2

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A13190	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A319.0
A13191	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.10 max Mn 0.50 max Ni 0.35 max Si 5.5-6.5 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A319.1
A13320	Aluminum Foundry Alloy, Casting replaced by A03360		
A13321	Aluminum Foundry Alloy, Ingot replaced by A03361		
A13322	Aluminum Foundry Alloy, Ingot replaced by A03362		
A13330	Aluminum Foundry Alloy, Casting	Al rem Cu 3.0-4.0 Fe 1.0 max Mg 0.05-0.50 Mn 0.50 max Ni 0.50 max Si 8.0-10.0 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A333.0
A13331	Aluminum Foundry Alloy, Ingot	Al rem Cu 3.0-4.0 Fe 0.8 max Mg 0.10-0.50 Mn 0.50 max Ni 0.50 max Si 8.0-10.0 Ti 0.25 max Zn 3.0 max Other: total 0.50 max	AA A333.1
A13550	Aluminum Foundry Alloy, Casting	Al rem Cu 1.0-1.5 Fe 0.09 max Mg 0.45-0.6 Mn 0.05 max Si 4.5-5.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A355.0
A13552	Aluminum Foundry Alloy, Ingot	Al rem Cu 1.0-1.5 Fe 0.06 max Mg 0.50-0.6 Mn 0.03 max Si 4.5-5.5 Ti 0.04-0.20 Zn 0.03 max Other: each 0.03 max, total 0.10 max	AA A355.2
A13560	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.20 max Mg 0.25-0.45 Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A356.0 AMS 4218; AMS-A-21180 (A356.0) ASME SFA5.10 (R-A356.0) ASTM B108 (A356.0); B26 (A356.0); B275 ; B618 (A356.0); B686 (A356.0); B917 (A356.0) AWS A5.10 (R-A356.0) SAE J 452 (336)
A13561	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.25 max Fe 0.15 max Mg 0.30-0.45 Mn 0.10 max Si 6.5-7.5 Ti 0.20 max Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A356.1
A13562	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.10 max Fe 0.12 max Mg 0.30-0.45 Mn 0.05 max Si 6.5-7.5 Ti 0.20 max Zn 0.05 max Other: each 0.05 max, total 0.15 max	AA A356.2 ASTM B179 (A356.2); B275
A13570	Aluminum Foundry Alloy, Casting	Al rem Be 0.04-0.07 Cu 0.20 max Fe 0.20 max Mg 0.40-0.7 Mn 0.10 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.10 max Other: each 0.05 max, total 0.15 max	AA A357.0 AMS 4219; AMS-A-21180 (A357.0) ASME SFA5.10 (R-A357.0) ASTM B108 (A357.0); B686 (A357.0); B917 (A357.0) AWS A5.10 (R-A357.0) SAE J 452
A13572	Aluminum Foundry Alloy, Ingot	Al rem Be 0.04-0.07 Cu 0.10 max Fe 0.12 max Mg 0.45-0.7 Mn 0.05 max Si 6.5-7.5 Ti 0.04-0.20 Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA A357.2 ASTM B179 (A357.2)
A13590	Aluminum Foundry Alloy, Casting	Al rem Cu 0.20 max Fe 0.25 max Mg 0.40-0.6 Mn 0.10 max Si 8.5-9.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA A359.0
A13591	Aluminum Foundry Alloy, Ingot	Al rem Cu 0.20 max Fe 0.20 max Mg 0.45-0.6 Mn 0.10 max Si 8.5-9.5 Ti 0.20 max Zn 0.05 max Other: each 0.03 max, total 0.10 max	AA A359.1
A13600	Aluminum Foundry Alloy, Casting	Al rem Cu 0.6 max Fe 1.3 max Mg 0.40-0.6 Mn 0.35 max Ni 0.50 max Si 9.0-10.0 Sn 0.15 max Zn 0.50 max Other: total 0.25 max	AA A360.0 AMS 4290 ASTM B275 ; B85 (A360.0) SAE J 452 (309)

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