



TECHNICAL PUBLICATION FOR: 40-700 SERIES ACC ULTRALIGHT MAGNESIUM ALLOYS

ACC 40-700

American Carbon Company's ultralight magnesium alloy ingots are cast accordance with the highest specifications and documentation. Manufactured in a fully ISO9001:2008 certified facility, our process leaves no resource untapped in demanding only the highest quality, specification complying compositions.

ASTM Alloy UNS Alloy	AM60A M10600	AM60B M10603
Aluminum (Al)	5.5-6.5	5.5-6.5
Manganese (Mn)	0.13 min	0.25 min
Zinc (Zn)	0.22 max	0.22 max
Silicon (S)	0.50 max	0.10 max
Iron (Fe)	-	0.005 max
Copper (Cu)	0.35 max	0.010 max
Nickel (Ni)	0.03 max	0.002 max
Other (Total)	-	0.003 max
Magnesium (Mg)	Balance	Balance

ASTM Alloy UNS Alloy	AZ91A M11910	AZ91B M11912	AZ91C M11914	AZ91D M11916	AZ91E M11921
Aluminum (Al)	8.3-9.7	8.3-9.7	8.1-9.3	8.3-9.7	8.1-9.3
Manganese (Mn)	0.13 min	0.13 min	0.13 min	0.15 min	0.17-0.35
Zinc (Zn)	0.35-1.0	0.35-1.0	0.40-1.0	0.35-1.0	0.40-1.0
Silicon (S)	0.50 max	0.50 max	0.30 max	0.10 max	0.20 max
Iron (Fe)	-	-	-	0.005 max	0.005 max
Copper (Cu)	0.10 max	0.35 max	0.10 max	0.03 max	0.015 max
Nickel (Ni)	0.03 max	0.03 max	0.01 max	0.002 max	0.001 max
Other (Each)	0.30 max	0.30 max	-	0.02 max	0.01 max
Other (Total)	-	-	0.3 max	-	0.3 max
Magnesium (Mg)	Balance	Balance	Balance	Balance	Balance

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