



ACC 40-x00

American Carbon Company's cast magnesium anodes are cast in 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, most consistent anode. From the discerning raw material selection to the intricate heating process, our anodes are guaranteed to meet the requirements of your project.

Standard Size Anodes Stocked in the Houston, TX*

Product Code	Description	Weight/Anode
40-301	3D3 HP Magnesium Anode	3
40-302	5D3 HP Magnesium Anode	5
40-304	9D3 HP Magnesium Anode	9
40-306	17D3 HP Magnesium Anode	17
40-307	20D2 HP Magnesium Anode	20
40-308	32D5 HP Magnesium Anode	32
40-309	48D5 HP Magnesium Anode	48
40-311	60S4 HP Magnesium Anode	60



*Availability may vary depending on demand. Other sizes may also be available for immediate shipment from Houston, TX. Many more sizes are available on a by-order basis, including all S-shapes, Aqueous style, hull mount, and any specialty magnesium anode you require. Dimensions and full list of sizes available upon request.

Chemical Composition per ASTM B843

Chemical Composition	Low Potential (AZ63 Gr. A)	High Potential (HP)
Magnesium (Mg)	Balance	Balance
Aluminum (Al)	5.30-6.70	0.01 max
Manganese (Mn)	0.15 - 0.7	0.5 - 1.3
Zinc (Zn)	2.5-3.5	0
Silicon (Si) (Max)	0.10	0.05
Copper (Cu) (Max)	0.02	0.02
Nickel (Ni) (Max)	0.002	0.001
Iron (Fe) (Max)	0.003	0.03
Other Impurities (Max)	0.3	0.3, 0.05 each

Electrochemical Properties

Electrochemical Properties	Low Potential (AZ31)	High Potential (HP)
Open Circuit Voltage (-V respect to Cu/CuSO ₄)	1.54 - 1.61	1.70 - 1.76
Closed Circuit Voltage (-V respect to Cu/CuSO ₄)	1.52 - 1.57	1.64 - 1.73
Actual Capacity (A•hr/lb)	≥ 501.7	≥ 500
Current Efficiency (%)	≥ 50	≥ 50

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