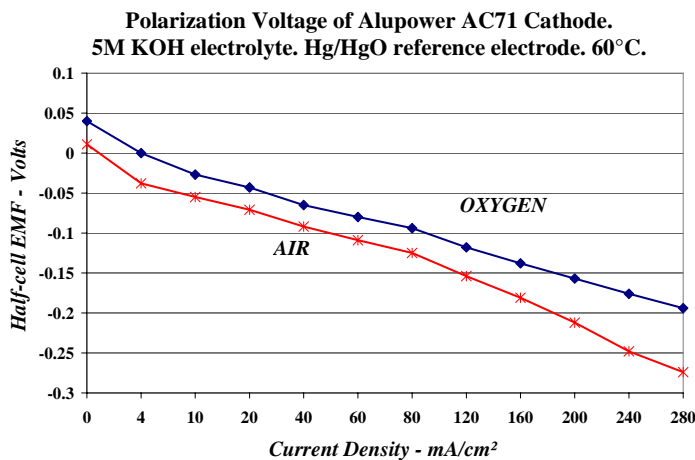


ALUPOWER

AC78 Technical Data Sheet

- Product Name:** Air Cathode
- Applications:** A high performance air cathode designed for use in alkaline metal-air or metal-oxygen cells and fuel cells.
- Operating Range:** AC78 is used in applications where the current density is typically over 150 milliamps per square centimeter.
- Operating Life:** Life in excess of 1,000 hours has been demonstrated in several applications.
- Thickness:** 0.5 mm (nominal)
- Basis Weight:** 492 grams per square meter (nominal)
- Safety:** AC78 does not contain mercury, cadmium, lead, lithium or other dangerous materials.
- Physical Description:** AC78 is a 4-layer laminate consisting of (a) A current collector of nickel-expanded mesh, (b) Two reactive layers, one on each side of the current collector, and (c) A microporous PTFE film on the air side. The product is flexible, strong and chemically resistant to a wide range of substances.
- Catalyst:** Pt
- Dimensions:** AC78 is available in widths of ten inches and unlimited length.



Current Density (mA/cm ²)	Oxygen EMF (Volts)	Air EMF (Volts)
0	0.04	0.011
4	0	-0.038
10	-0.027	-0.055
20	-0.043	-0.071
40	-0.065	-0.092
60	-0.08	-0.109
80	-0.094	-0.125
120	-0.118	-0.154
160	-0.138	-0.181
200	-0.157	-0.212
240	-0.176	-0.248
280	-0.194	-0.274