

Data for the requested batteries in tabular form:

Battery	1ry / 2ry	Wet/ Dry	Anode	Cathode	Electrolyte	Oxidation Reaction	Reduction Reaction	Net Cell Reaction	
Carbon Dry Cell	Primary	Dry	Zinc (Zn)	MnO ₂	NH ₄ Cl, ZnCl ₂)	$\text{Zn} \rightarrow \text{Zn}^{2+} + 2\text{e}^{-}$	$2\text{MnO}_2 + 2\text{NH}_4^{+} + 2\text{e}^{-} \rightarrow \text{Mn}_2\text{O}_3 + 2\text{NH}_3 + \text{H}_2\text{O}$	$\text{Zn} + 2\text{MnO}_2 + 2\text{NH}_4\text{Cl} \rightarrow \text{ZnCl}_2 + \text{Mn}_2\text{O}_3 + 2\text{NH}_3 + \text{H}_2\text{O}$	Flashlights, toys
Alkaline Battery	Primary	Dry	Zinc powder	MnO ₂	KOH)	$\text{Zn} + 2\text{OH}^{-} \rightarrow \text{Zn}(\text{OH})_2 + 2\text{e}^{-}$	$2\text{MnO}_2 + \text{H}_2\text{O} + 2\text{e}^{-} \rightarrow \text{Mn}_2\text{O}_3 + 2\text{OH}^{-}$	$\text{Zn} + 2\text{MnO}_2 + \text{H}_2\text{O} \rightarrow \text{Mn}_2\text{O}_3 + \text{Zn}(\text{OH})_2$	Remote controls, clocks
Nickel Cadmium	Secondary	Dry	Cadmium (Cd)	Nickel oxyhydroxide (NiOOH)	KOH	$\text{Cd} + 2\text{OH}^{-} \rightarrow \text{Cd}(\text{OH})_2 + 2\text{e}^{-}$	$\text{NiO}(\text{OH}) + \text{H}_2\text{O} + \text{e}^{-} \rightarrow \text{Ni}(\text{OH})_2 + \text{OH}^{-}$	$\text{Cd} + 2\text{NiO}(\text{OH}) + 2\text{H}_2\text{O} \rightarrow \text{Cd}(\text{OH})_2 + 2\text{Ni}(\text{OH})_2$	Cordless phones, emergency
Lead Storage Battery	Secondary	Wet	Lead (Pb)	PbO ₂	H ₂ SO ₄	$\text{Pb} + \text{SO}_4^{2-} \rightarrow \text{PbSO}_4 + 2\text{e}^{-}$	$\text{PbO}_2 + \text{SO}_4^{2-} + 4\text{H}^{+} + 2\text{e}^{-} \rightarrow \text{PbSO}_4 + 2\text{H}_2\text{O}$	$\text{Pb} + \text{PbO}_2 + 2\text{H}_2\text{SO}_4 \rightarrow 2\text{PbSO}_4 + 2\text{H}_2\text{O}$	Automobiles, backup power
Mercury Battery	Primary	Dry	Zinc (Zn)	HgO	KOH	$\text{Zn} + 2\text{OH}^{-} \rightarrow \text{ZnO} + \text{H}_2\text{O} + 2\text{e}^{-}$	$\text{HgO} + \text{H}_2\text{O} + 2\text{e}^{-} \rightarrow \text{Hg} + 2\text{OH}^{-}$	$\text{Zn} + \text{HgO} \rightarrow \text{ZnO} + \text{Hg}$	Hearing aids, medical
Lithium Ion Battery	Secondary	Dry	Lithium	Lithium cobalt oxide (LiCoO ₂)	Organic solvent with lithium salt (e.g., LiPF ₆)	$\text{LiC}_6 \rightarrow \text{Li}^{+} + \text{C}_6 + \text{e}^{-}$	$\text{Li}^{+} + \text{CoO}_2 + \text{e}^{-} \rightarrow \text{LiCoO}_2$	$\text{LiC}_6 + \text{CoO}_2 \rightarrow \text{LiCoO}_2 + \text{C}_6$	Hearing aids, medical instruments