

Anode	Carbon rod
Cathode	Carbon lining
Electrolyte	Molten cryolite and Alumina
Equation of the chemical reaction at anode	$2O^{2-} \rightarrow O_2 + 4e^-$ $C + O_2 \rightarrow CO_2$
Equation of the chemical reaction at cathode	$Al_2O_3 \rightarrow 2Al^{3+} + 3O^{2-}$ $Al^{3+} + 3e^- \rightarrow Al$