Znic deposition under different components of saturated electrolyte and different electrodes Yan Yu, Pu Chen University of Waterloo 200University Ave, Waterloo, ON, Canada

In this research, we use 3 different kinds of zinc salts as electrolyte, 3 different kinds of metal as cathode and znic as anode to see how znic deposits under different conditions.

Parallel experiment was carried by application of saturated electrolyte with 1 to 3 components. The fluidity of the solution is considered to be a influence factor. Different results of znic deposition have been obtained by SEM. The results of one time charge and several cycles of charge&discharge have also been compared.

The research also shows the effect of current density applied in these different situations to the deposition of znic in the cathode.