Zinc from Secondary Sources

**EZINEX® Process**

**Title:** Electrolytic Zinc Production from Crude Zinc Oxide with the EZINEX® PROCESS

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**Abstract:**
The crude zinc oxide (CZO) produced in any thermal process dealing with EAF dust also contain lead, cadmium, and a considerable amount of halides (chlorides and fluorides). The high halide content make these crude zinc oxides less and less attractive, both technically and economically, and a further refining procedure is performed to meet the zinc and the zinc oxide market requirements.

Hydrometallurgical techniques commercially used to dehalogenate the crude zinc oxides, are not enough effective to upgrade the crude zinc oxides to the required specification for their direct use in the traditional sulphuric electrolysis by primary zinc producers.

The EZINEX® PROCESS has solved the problem of the halides contained in the crude zinc oxides.

The process is the only proven technology electrowinning zinc from a chloride based electrolyte un a conventional cell house.

This paper discusses the process economics taking the data from feasibility studies of different size commercial plants.