Zinc from Secondary Sources

**EZINEX® Process**

**Title:** The EZINEX® Process – An Innovative Approach for the Crude Zinc Oxides/EAF Dust Treatment

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**Abstract:**
The EZINEX® PROCESS has been developed with the aim to solve in an economical and comprehensive way the environmental problem related to the treatment of EAF dust.
The recent dramatic increase of the EAF Dust problem, has accelerated the development of a process and in a few years the process development passed from a laboratory bench scale test, through a pilot plant equipped with an industrial electrolytic cell, and final to an industrial prototype plant having a capacity of 2,000 t/y zinc cathodes
The plant, erected at Ferriere Nord mini mill located in Osoppo, Italy, after about one year spent for commissioning and trouble shooting, started regularly the production meeting the expected performances.
In the meantime other zinc bearing materials have been tested in the plant with positive results.
The EZINEX Process, based on a new and original electrochemical system, proved to be very highly efficient when crude zinc oxide is fed. The electrolyte, based on chloroamino complex, allows the recovery of a high purity zinc cathode and a heavy metals cement that can be processed elsewhere.