

Secondary Lead Production (Pyrometallurgical Treatment) **CX[®] Process**

Title: Recycling of Lead Acid Batteries with Desulphurization Process

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Abstract: The first industrial installation built up by Engitec Impianti for the treatment of lead-acid batteries, with desulphurization of the active mass and simultaneous production of “detergent grade” sodium sulphate, started operation in 1982 at the Marcianise (Caserta, Italy) plant.

Known worldwide by its trade name “CX”, after the necessary field development, this process has been acknowledged by the industry experts as the most reliable and technologically advanced system available nowadays on the market.

Since 1982, seven CX installations have been put into operation in different world areas, performing paste desulphurization for an overall capacity of 500,000 tons per year of batteries treated.

Other three plants are presently under construction, which will increase the overall treating capacity by 100,000 tons per year, while the feasibility studies for further five plants to be realized in the next three/four years are being completed now.

About 30 % of all the batteries available worldwide is expected to be processed in treatment plants complete with desulphurization section by the end of the nineties; this percentage rises to about 50 % if we consider only the most industrialized countries.