

PURIFICATION AND REFINING OF SALT FOR CHEMICAL AND HUMAN CONSUMPTIONS

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EXTENDED ABSTRACT

The presence of impurities in salt has economic and environmental consequences.

Impurities increase the cost of brine treatment in chemical processes, magnify the problems of contaminated effluent disposal and necessitate costly refining of salt for human consumption.

The classic approach to salt purification ranges from mechanical salt washing to vacuum salt recrystallization.

SERRA has been engaged in developing unconventional and innovative processes that are inexpensive, yet achieve highest levels of salt purity.

The presentation examines the nature of impurities in salt and explains the unit operations employed in the SERRA salt purification process. It describes the prediction methods of the process performance and presents results obtained in industrial plants commissioned recently.

Finally it describes the latest developments in the field.