Presentation by Vladimir M. Sedivy, President, Salt Partners Ltd.
at the EuSalt Annual General Assembly 2011

Counter-Current Hydroextraction Produces Ultrapure Vacuum Salt for Membrane Chloralkali Electrolysis

Impurities in salt are costly. Impurities dissolve in electrolytic brine and need to be removed. The cost of brine purification is high and so is the cost of effluent disposal.

If ultrapure salt (99.99% NaCl) is employed for membrane electrolysis, the cost of brine treatment is substantially reduced and pollution is avoided. The primary brine purification is not needed. Processes required for removal of sulphates, bromides, etc. can be eliminated. Current efficiency is maintained high and voltage low throughout the extended membrane life.

This presentation describes the application of advanced HYDROSAL salt purification technology with counter-current hydroextraction of impurities for production of ultrapure salt for the chloralkali industry. The main principles of the technology, the integration of the technology in vacuum salt plants and the results obtained in practical operation of commercial units are presented.

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