

# Salt Partners

Salt Partners Ltd.  
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## Salt Partners were appointed consultants for an ultrapure salt project in Europe



Ultrapure salt for membrane cells

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Salt and chloralkali industries are concerned about impurities in salt, mainly calcium, magnesium and sulphate. For increasing number of caustic / chlorine plants employing membrane cells, other impurities are also important. These include iodine, barium, aluminium, silica, etc. They alone, or their combinations, can severely damage the membranes. In Europe, many salts contain these impurities. Even vacuum salts produced from chemically purified brines contain traces of impurities that make them less suitable for electrolysis in ion exchange membrane cells.

An industrial group in Europe, active in the field of salt and chloralkali production, with access to very pure rock salt deposits and to solar ponds, is planning to produce ultrapure salt suitable for membrane cells. The target is to produce salt free of bromine, potassium, etc. and to achieve a minimum of 99.99% NaCl purity. Part of the salt will be consumed in-house, the balance will be supplied to other chloralkali producers and for demanding applications such as pharmaceutical use, textile dyeing, etc.

Salt Partners were awarded a consultancy contract to carry out a feasibility study and to provide project execution services. In the conceptual stage, Salt Partners will examine strategic options, such as:

- Build a new plant based on advanced technology
- Establish a joint venture with existing salt producer
- Buy an existing producer and modernise the facility.

In the techno-economic stage, Salt Partners will evaluate project alternatives, such as:

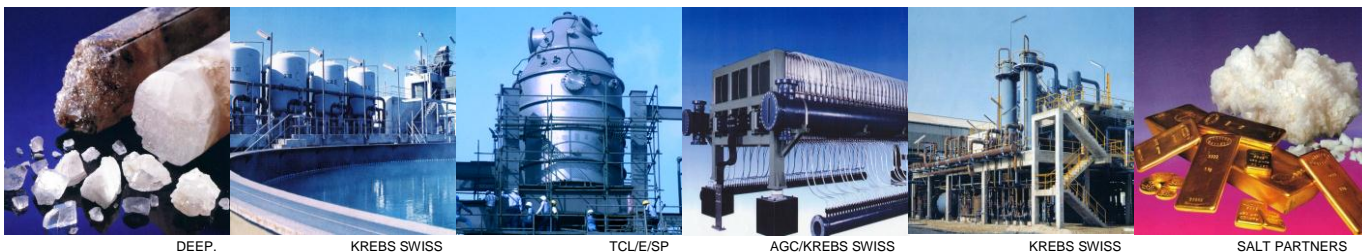
- Use of rock salt or solar salt as raw material
- Advanced batch or continuous brine purification
- Multiple effect evaporation or recrystallisation
- Mechanical vapour recompression, etc.

Salt Partners will verify the salt properties, call for budgetary tenders, evaluate technologies and prepare a computerised financial model. The assignment includes assessment of the value of ultrapure salt against alternative salts available on the market.

Salt Partners are independent consultants and engineers, active in the field of salt and chloralkali production, salt processing and hypersaline biotechnology. Salt Partners' worldwide reputation is based on more than 30 years of experience gained in projects implemented on all continents.

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