

Processing of lithium salt – follow-up order for OSMO



The demand for lithium is rising sharply and mention has been made many times of the outbreak of “lithium fever” anticipated in the next few years, for the mercurial

growth in demand for this chemical element is not simply due to the increasing significance of lithium in battery products. Until now, lithium ion batteries were used princi-

Lithium ion rechargeable batteries are regarded as the energy storage solution for the future and are indispensable, in particular, for electro-mobility. One of the most renowned producers of speciality chemicals has once more ordered an ultra high pressure reverse osmosis system to expand its capacity to produce lithium salt.

pally to power portable electronic devices, such as notebooks, and mobile telephones, but now they are regarded as key technology for electro-mobility, which requires much greater quantities of lithium.

Major plant expansion

OSMO is undertaking a major project to expand existing plant for one of the largest and most famous speciality chemical producers in the world, which specialises in producing lithium salt, among other products. The expansion of the existing plant in Canada was completed in 2011 and successfully commissioned. The plant has been expanded by means of a multi-stage ultra high pressure reverse osmosis system, procedurally similar in application to the one already constructed for Südchemie at their Heufeld site in Bavaria.

Concentration of 1 g/l to more than 120 g/l

The entire ultra high pressure system comprises three stages specially connected to each other and concentrates lithium salt from a concentration of 1 g/l to more than 120 g/l. Depending on the salt concentration in the preparation cycle the operating pressures are in the range of 30, 60 or 115 bar.

As well as planning and supplying the new HP UO stages, the contract includes electrical and mechanical supervision, commissioning and on-site training.

OSMO is very proud of this repeat order since the customer is once more putting its confidence in the outstanding quality of the plant constructor's work and its ability to meet production deadlines. The system will be delivered in January 2015.

PROJECTS

7 Ultra high pressure reverse osmosis system

