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**PURIFICATION OF LITHIUM CHLORIDE IMPURITIES BY THE
METHOD OF ZONE RECRYSTALLIZATION**

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Lithium is a metal that is mainly used for the production of lithium ion batteries and the production of light aircraft alloys, as well as in other industries. High-purity lithium is used in production, which is obtained by electrolysis from a melt of potassium and lithium chloride salts. The disadvantage of lithium chloride is its high hygroscopicity. In this regard, the product of lithium chloride hydrolysis, lithium oxide, enters the molten salts. Lithium oxide undergoes electrolysis, as does lithium chloride. During the electrolysis of lithium oxide, oxygen is released at the anode. The oxygen released on the anode reacts and destroys the anode. The method of sorption purification, drying and calcination of the powder is used to prepare lithium chloride at NCCP. At the same time, some of the moisture remains in lithium chloride.

One of the most effective cleaning methods is zone recrystallization - a time-consuming process, but quite effective. Therefore, in further work it is advisable to create a simple zone melting unit and work out the recrystallization mode of lithium chloride.