



Calcium Chloride Recovery in Soda Ash Production by Solvay's Process

Temesgen Atnafu, Seid Yimer

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Calcium Chloride Recovery in Soda Ash Production by Solvay's Process Temesgen Atnafu, Seid Yimer Research Paper from the year 2013 in the subject Engineering - Chemical Engineering, , course: Chemical Engineering, language: English, abstract: There is a lot of wastage of calcium chloride going on daily and lot of valuable resources are being wasted. If this continues and any solution is not provided then this problem can prove to be very vital for the industry. Based on this study we look forward to design a major project based on recovery of calcium chloride, which will be fruitful to the industry to solve this setback and hence will be profit making concept. The focus on recovery of calcium chloride and minimizing the problem can lead to significant cost savings and industrial growth. Our solution provides the methods for recovery of calcium chloride from which evaporative crystallization process is very economical and efficient process. The final product will be in flake form (calcium chloride dehydrate) having 78 - 80% purity. It can be further dried to get calcium chloride anhydrous having purity level of 94%.The main advantage of this system is physical form of product (non dusty) and the cost of operation is far less as compared to conventional drying systems. The present demand for the calcium chloride is estimated at 53 tons per annum. The demand is expected to reach at 137.5 tones by the year 2018. The calcium chloride recovery from Solvay's process solution succeeds in addressing all of these requirements where previous efforts have failed.

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