

- From time-swelling plot for treated and untreated bentonite clay, it can be concluded that for initial 1-10 minutes, there was almost negligible swelling. The initial swelling starts increasing marginally till nearly 100 minutes. Then, significant increase in swelling from 100 minutes till nearly 1000 minutes. More than 95% of the swelling parts were completed till 1000 minutes. This time zone corresponds to primary swelling and finally, again it gets swell but at marginal rate and approached to an asymptotic curve, it would take longer duration for the completion of secondary swelling. Lesser the amount of NaCl sol. in bentonite, steeper rise in the swelling curve.

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