

*Project logo*



## Relevant images

### Ca alkoxide

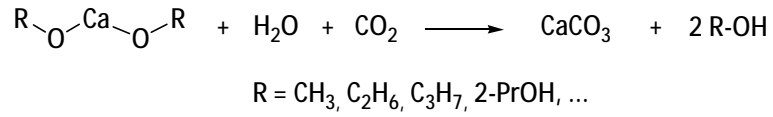


Figure 1: Reactivity of Calcium alkoxides with atmosphere leading to the formation of Calcium carbonate

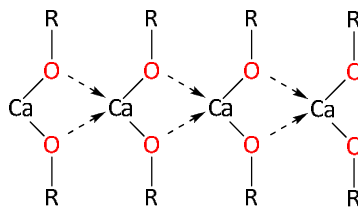


Figure 2: Oligomerization of Calcium alkoxides, a process responsible of low solubility/ insolubility of these compounds

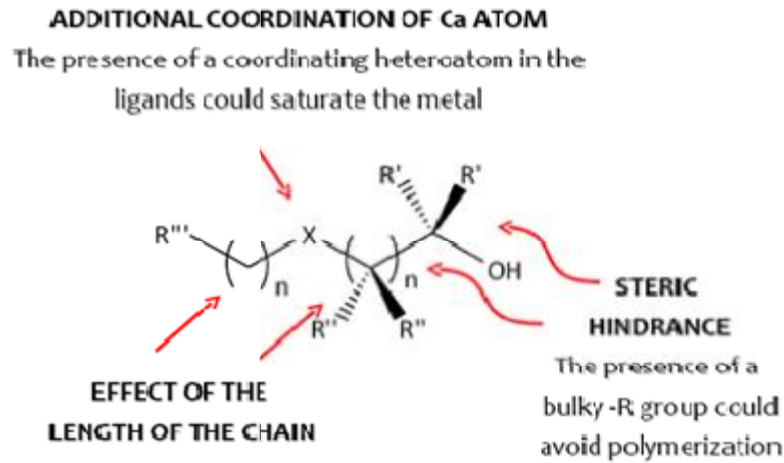


Figure 3: Possible modifications of the structure of Calcium alkoxides to modify their physico-chemical properties

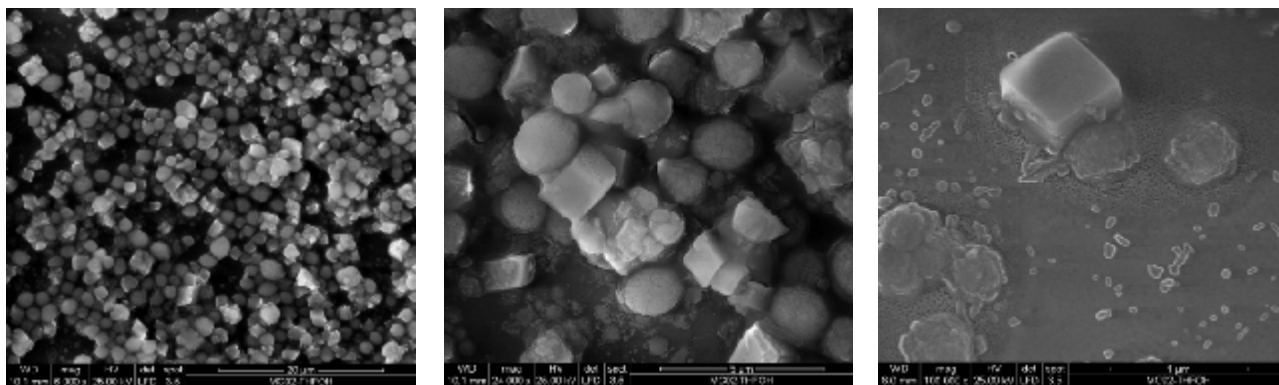
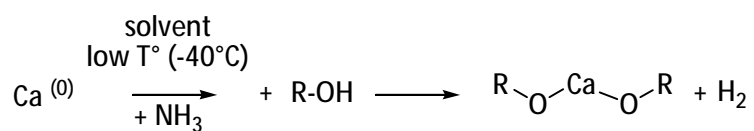


Figure 4: Secondary electron images collected by FEG-ESEM from the coating of Ca(OH)<sub>2</sub> after wetting.



R = CH<sub>3</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>7</sub>, 2-PrOH, ...

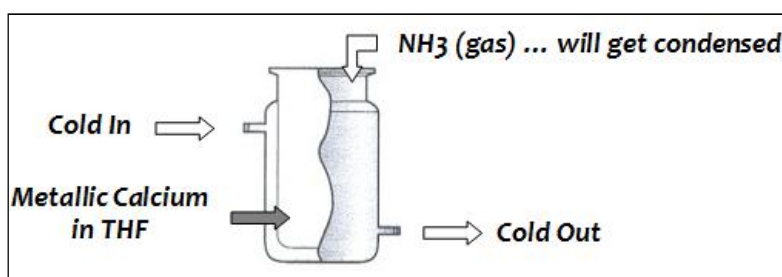


Figure 5: Ammonia reaction

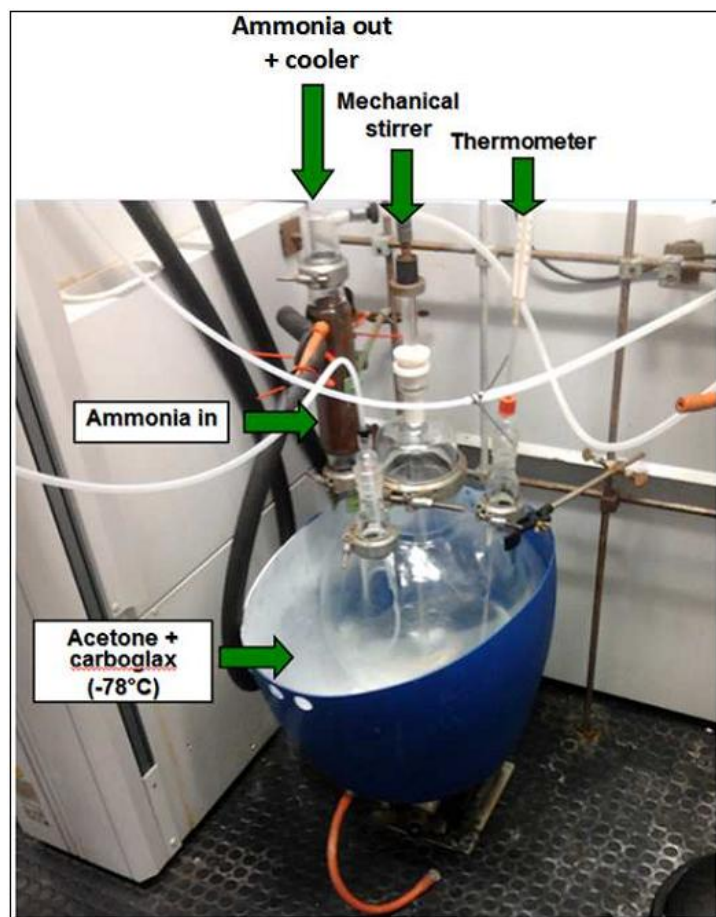


Figure 6:  $\text{Ca}(\text{OTHF})_2$  synthesis – scale up to kilo/lab = 200g scale

## Al alkoxide

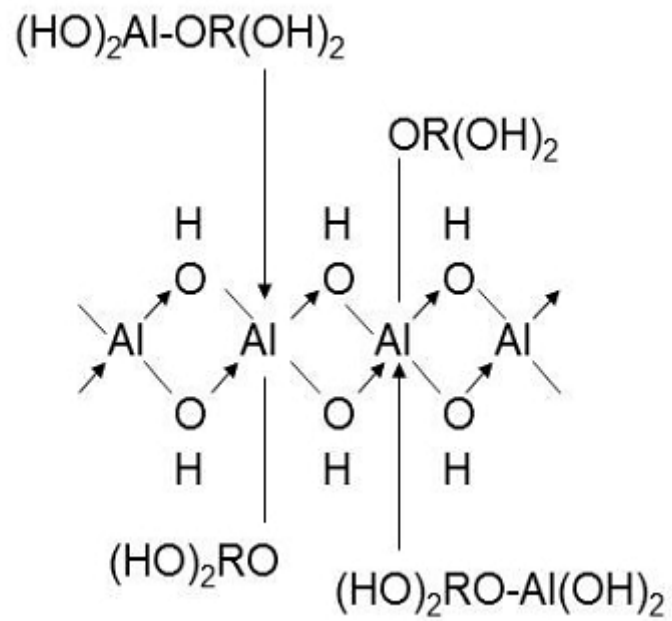


Figure 7: Oligomers contained in the powder resulting after complexation of A18 with TEA and evaporation of the alcohol.



Figure 8: Complexation of aluminium alkoxide (a) and the intermediate A18 powder before preparation of the sol (b).

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