

### Particle growth of calcium fluoride

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In this study, we report on calcium fluoride particles synthesized by potassium fluoride and calcium chloride. The synthesized particles were characterized by X-ray diffraction (XRD), scanning electron microscopy (SEM), energy dispersive spectrometer (EDS). According to the CaF<sub>2</sub> particle analysis carried out by XRD and SEM, the morphological features revealed that the synthesized particles were hexahedron shape. In addition, particle growth of CaF<sub>2</sub> are strongly dependent on the experimental parameters, such as feeding rate, mixing speed, pH, and reaction temperature.