

A Review of Morphology Analysis on Dolomite as an Additive Material in Geopolymer

Abstract

Dolomite is a carbonate mineral in nature. Dolomite ($\text{CaMg}(\text{CO}_3)_2$) is an anhydrous carbonate mineral composed of calcium, magnesium, and carbonate. The word dolomite is also used to describe the sedimentary carbonate rock, which is composed predominantly of the mineral dolomite (also known as dolostone). Dolomite had been one of the frequent used materials in most of researches due to its accessibility to acquire and the properties. The composition of Ca and Mg became one of the main attractions for the usage of this natural mineral. One of the main properties needed to be studied when using any materials is morphology of the material. Morphology analysis can give much valuable information about the surface topography and composition of the sample. Other than that, detailed three-dimensional and topographical imaging can also be obtained. This can help the researchers to find the core value or the novelty in their study. Thus, reviews for the morphology analysis of dolomite were done to investigate how the structures of dolomite develop for certain study and usage. Besides that, dolomite as an addition into certain materials were reviewed and compared to observe the interactions and changes happened.