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Effect of Fly-ash Doped Kaolin on Mechanical Properties and Heat-insulating of Ceramics

In this research, ceramics fly-ash doped kaolin 10 to 50 wt.% were fabricated by solid-state reaction. All powders were weighed, mixed and further milled by ball-milling for 4 h. All compositions of powders were uniaxial pressed in pellets and sintered at the temperatures 1100 °C for 4 h. Compositions of the ceramics were investigated by using X-ray diffraction technique. The particle size of powder and microstructure of ceramics were measured by scanning electron microscope. The result shows relationships between ratio of fly-ash doped kaolin with mechanical properties and heat-insulating of ceramics.

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