

Effect of palm slag filler size on the mechanical and wear properties of brake pad composites

Abstract

Particle size of filler and other material that involved in brake pad composites are expected to be able to strongly influence the wear properties and performance. Palm slag as a filler in brake pad was investigated in this paper. Different particle sizes of palm slag were used. The properties examined included density, hardness, compressive strength and wear behaviour. The results showed that brake pad with large particle size of palm slag offers higher density, hardness, compressive strength and better wear resistance. The result also supported by SEM micrograph.

Keywords; Brake pad composite, Calcium carbonate, Compressive strength, Dolomite, Palm slag, Wear behaviour