

Thermal Characterization of MgO Powders by Means of Hot Wire Technique: Particle Size Effect

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We report a thermal diffusivity and thermal conductivity determination of MgO powders, as a function of particle size distribution. We use the hot wire technique in order to obtain the thermal parameters for each particle size distribution and quantitative analysis using EDS-SEM. Our results show a significant difference among the thermal parameters of the samples with a different particle size distribution. Moreover, we present a theoretical model which gives a good description of the experimental results.