

Characterization of aluminium oxide composites

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ABSTRACT

Three alumina-based composites were fabricated by die compaction followed by sintering. The porous microstructure was analyzed by SEM (Scanning Electron Microscopy) and EDS (Energy Dispersive X-Ray). In order to know the variation in surface roughness parameters (Ra , Rz , $Rmax$) of alumina composites the surface roughness of the samples was measured using a three-dimensional laser surface roughness analyzer. The microhardness values of the composites were evaluated using Vickers microhardness tester.

KEYWORDS

Alumina; hardness; roughness

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