

Preparation of carbon nanotube-ceramic composite powders by spray pyrolysis

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Ceramics have high stiffnesses and thermal stabilities, but relatively low breaking strengths. Incorporating carbon nanotubes into a ceramic matrix might be expected to produce a composite with toughness, high temperature stability and electrical conductivities. In this study, we prepared carbon nanotube-ceramic composite powders by spray pyrolysis which is good tool for generating highly pure, multicomponent and sphere particles. Not only the structure and morphology, but the brittleness of the composites were characterized.