Behavior of electric property in condition of sintering process of heating element by waste MoSi₂ materials

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MoSi2 is widely used for high-temperature heating elements owing to its low electric resistivity and good thermal conductivity. But, most of MoSi2 powders are not recycled. For recycling of waste MoSi2 materials, the heating element with bentonite and additives was fabricated using a vacuum extruder, which were then sintered at temperature of 1600°C. From the produced heating element, we investigated behavior of electric property according to the extrusion pressure, sintering temperature and sintering time. Electric property measured by electric discharge device.