

## Properties of high-purity charge for the production of bulk single crystals of silicon carbide

*D. A. Skvortsov, R. I. Sidorov, B. F. Mamin and V. A. Neverov*

Ogarev Mordovia State University  
68 Bolshevistskaya st., Saransk, 430005, Russia

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***The granulometric and thermophysical characteristics of SiC charge powders, as well as imported ultrapure powder (GMF-CVD, Japan) were studied. The charge was obtained by self-propagating high-temperature synthesis. It is shown that the domestic SiC dispersed material is not inferior to foreign analogues in a number of characteristics and can be successfully used for the industrial production of SiC single-crystal. Based on the research results, a technological route was developed and a bulk SiC single crystal with a diameter of 100 mm was grown on the basis of one of the synthesized powders.***

**Keywords:** silicon carbide, powder, thermophysical characteristics.

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