

## QUANTITATIVE DESCRIPTION OF THE MICROSTRUCTURE OF SINTERED MATERIALS

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### Summary:

Sintered materials contain particles, grains and pores, interphase and grain boundaries. Depending on the details of the technological route they differ in the amount and the distribution of these elements. Such differences can be now analysed in a quantitative way using the methods of image analysis and stereology. In particular, these methods provide estimates of the number of microstructural elements of a given size (e.g. number of particles per unit volume), their shape (if applicable), and their spatial distribution. The paper describes methodology of these measurements, and how the results can be applied to optimise microstructure of sintered specimens.

### Keywords:

Sintered materials, microstructure, quantitative description

### 1. Introduction:

Sintering is an economic technology for a growing number of ceramic and metal parts (1). On the other hand, one of the significant drawbacks of sintered materials is their reduced plasticity. As the properties of materials depend strongly on their microstructure, their fracture toughness can be improved by microstructure design. This, in turn, requires proper methods for quantification of the microstructural elements of sintered materials.

The major elements of the microstructure of the sintered materials are:

- a) grains (G) and grain boundaries (GB);
- b) pores (P) and pore solid boundaries (PSB);
- c) strengthening particles (SP) and interphase boundaries (IB).

Pores, grains and particles are 3-dimensional elements, while internal boundaries are 2-dimensional features dispersed in volume of a material in

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