

**Impact of the Industrial Manufacturing Processes on  
Properties of Nanosized Ceramic Materials.**

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Large scale economical production of nanoparticles of ceramic oxides is facing number of difficulties, including lack of flexible and reliable characterization methods. Properties of the final product usually are a compromise of these issues and the quality.

In addition, each process gives the nano-product a special stamp, which helps some applications, however, for the same reason eliminates the material from others. Proper understanding of chemical, thermal and mechanical history of manufacturing of nano-particles is critical in the selection of the product for the particular use.

In this work we want to compare the impact of the most common industrial processes on characteristics of nanosized products of ceramic oxides and mixed oxides.