

NANOPOWDERS FOR ADVANCED CERAMICS

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Nanopowders improve mechanical properties of fine ceramics and lowers sintering temperature. Yet, unlike regular micronic powders, the preparation of a ready-to-sinter nanopowder requires a specific know-how.

Indeed, very fine powders bring new difficulties such as appropriate deagglomeration. Taking advantage of its scientific partnerships with renowned laboratories, Nanoe has focused on these issues and gained solid competencies to give you a ready-to-use product.

Using nanometrical ceramics powders improves mechanical properties such as:

- bending strength
- toughness
- hardness
- and wear resistance

When properly prepared, the densification of nanopowders occurs at low temperatures (about 150°C lower), which has an impact on grain size after sintering.

Nanostructured ceramics has better resistance to thermal shocks.

When sintered with HIP or SPS methods, ceramics can be translucent and even transparent.

Nanoe brings you years of experience and solid know-how so that your factory can take advantage all the benefits of nanoscale ceramics within a reach