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PRODUCT SERIES PROFILE

Structu-Fine Series

Specifically designed to satisfy the demanding requirements of manufacturing advanced ceramic components, Z-TECH has developed a series of high performance monoclinic zirconias to meet these needs.

The SF-EXTRA and SF-PREMIUM products are plasma processed zirconia powders having the high purity levels necessary to achieve the most cost-effective performance as a raw material in structural ceramics manufacture. The characteristics include uniform chemical composition and particle size distribution, excellent lot-to-lot consistency, and a unique open and reactive crystalline structure.

All of Z-TECH's Structu-Fine Series of zirconia powders are weakly agglomerated and very friable, which enables milling to sub-micron average particle size with minimal effort.

Applications

The Structu-Fine zirconia powders are designed especially for application in the manufacture of structural ceramics, where the customer prefers the flexibility of adding the stabilizer oxide (MgO, CaO or Y₂O₃) during the fabrication process. Primarily, these Z-TECH zirconia powders are constituents in various types of partially and fully stabilized zirconia ceramics. Such zirconia structural ceramics include:

- ? Wear Parts (bearings, valves, shapes, seals, etc.)
- ? Engine and Machine Components
- ? Milling Media
- ? Refractories

Packaging

The Structu-Fine Series of zirconia powders are packaged in 55 lb. (25 Kg), 110 lb. (50 kg.) and 275 lb. (125 kg.) fiber drums.

Detailed product data sheets are available upon request.