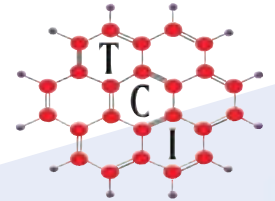


TCl Ceramics, Inc.



Advanced Materials

When you need advanced ceramic materials and a business partner who has customer sensitivity, technical competence, and the ability to innovate, look no further than TCl Ceramics, Inc. Operations in Hagerstown, Maryland (USA) enable TCl to provide customers with advanced materials; leading-edge research and development; and low cost, high-volume manufacturing.

TCl Ceramic's thermal deposition materials are composed of Ytria-Zirconia and other material families, typically used as thermal barriers as well as environmental and wear resistant coatings. TCl ingots have uniform grain and pore size distribution that assure satisfaction and meet the highest standard for purity.

Typical Applications

- Aircraft turbine blades
- Environmental coatings
- Industrial turbine blades
- Automotive components

Specialty Ceramics

- Semi-conducting oxides
- Hydroxylapatite
- Others



Features

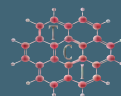
Ingots Controlled density (part to part variation +/- .02 g/cc)
Fully reacted
Uniform grain and pore size distribution
Controlled composition

Powders Fully reacted
Flowable
Sintered sprayed powder
Controlled composition
High purity

Benefits

Uniform melting
Improved process repeatability
Minimum degassing and spitting

Improved process yields
Consistent mechanical and chemical performance
Improved deposition efficiency



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