HIGH-PERFORMANCE CERAMICS

PUMP IMPELLERS

Application:
Pumping aggressive media

Material:
Alumina F99.7
Zirconia FZM

The wear and tear of components exposed to flow represents a major problem in process engineering. The combination of abrasion and corrosion means for a large number of the materials commonly used in pump technology pose an extremely critical load.

Components made of F99.7 and FZM are due to their high hardness and very good corrosion resistance ideally suited for use in aggressive media. Modern manufacturing processes make it possible to produce complex geometries from ceramic materials economically to manufacture.

Fields of Application:
- Nickel processing:
  Ore suspensions containing HCl
- Titanium dioxide production:
  H_2SO_4 and Ilmenite
- Magnesite processing:
  HCI-containing $MgCl_2$ solution

FZM and F99.7 should not be called in alkaline media, as well as media with a high fluoride content can be used.

- **Extreme abrasion resistance**
- **Good corrosion resistance**
- **High temperature resistance**
- **Variable geometries**

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