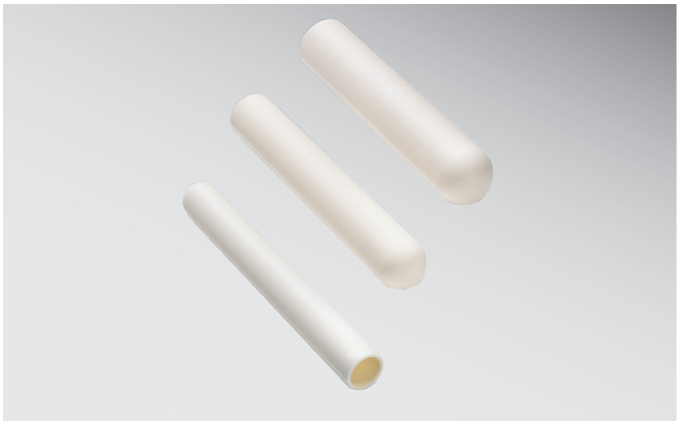
HIGH-PERFORMANCE CERAMICS

OXYGEN SENSORS O_2 PROBES WITH DEGUSSIT FZY SOLID ELECTROLYTE



Application:
Oxygen Measurement in Gases and Atmospheres

Material:
Zirconia DEGUSSIT FZY

Oxygen sensors with yttrium-oxide-stabilised Zirconia made of DEGUSSIT FZY are suitable for measuring oxygen levels in gases and atmospheres in saturated surroundings as well as in ultra-high vacuum (UHV).

Zirconia sensors usually work at a temperature starting at 400 °C. There are also, however, unheated sensors that are directly installed in the hightemperature processes, as well as heated sensors installed outsidesuch processes.

The measurement electronics processes the electromotive force (EMF) transmitted by the sensor into a partial pressure of oxygen and its derivable value, which can, for example, be represented alphanumerically.

Fields of Application:
- Annealing processes
- Protective-gas monitoring
- Surface treatments (hardening plants)
- Redox processes
- Diffusion processes
- Biotechnical processes and food-packaging controls

Product Range:
- Tubes, one side closed, both sides open
- Panels
- Crucibles
- H-sleeves
- Spheres
- Moduled parts

- **Resistant to temperature changes**
- **Corrosion resistant**
- **Application temperatures up to 1500°C**
- **Fast reaction with constant measurement signals**

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