

# Statement

## *Declaration of compliance according to 2.1 (EN 10204)*

### **Subject: Material ZrO<sub>2</sub> , Male bearing, Kest Mixer**

Kest Technology AB hereby certifies that the material described below complies with the terms in this statement.

Kest Mixer Male bearing ZrO<sub>2</sub> described in table below, are manufactured in material ZrO<sub>2</sub>, according to this Statement

Kest Male bearings in ZrO<sub>2</sub>, are shrinked designed with top and bottom in Stainless Steel (EN 1.4435/316L).

<b>Article No:</b>	<b>Size of bearing, diameter</b>
KM1-MB12-Zr	12 mm
KM1-MB20-Zr	20 mm
KM1-MBF30-Zr	30 mm

Material have been tested according to regulations from FDA-USA and USP Class VI

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**Product Description Bearing:** Male bearing material ZrO<sub>2</sub>-FZM Zirkonium Oxide

**Material Name:** Frialit®- Degussit , FZM

**Manufacturer of Ceramic:** Friatec AG

**Properties of material:** FZM, ZrO<sub>2</sub> partially stabilized with MgO, dense, high strength and highly wear resistant, extremely resistant to corrosion and thermal chock.

**Properties of Microstructure:** Apparent Density: 5,7-5,8 g/cm<sup>2</sup>  
Open porosity : 0 %  
Mean Grain Size:50µm

**Mechanical Properties 20°C:** Hardness (Knoop 100g): 16 000 N/mm<sup>2</sup>  
Compressive Strength: 2000 N/mm<sup>2</sup>  
Bending Strength:500 N/mm<sup>2</sup>  
Modules of Elasticity:185 GPa

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Kungälv 2018-10-19

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Tommy Bergman

Quality Assurance