QUESTIONNAIRE SLIDE BEARING

Date: _____

1. Gerneral data:

Company: _____

Adress: _____

Post code: _____ City: _____ Country: _____

Contact: _____ Department: _____

Phone: _____ E-Mail: _____

2. Application data:

Description of the application: _____

Present material: _____

Demand each year: _____ actual price: _____

Why do you want to use plastic: _____

Which disadvantages should be discontinued: _____

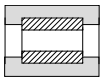
Grade of function impairing: _____

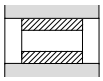
Which advantages should be reached: _____

3. Type of bearing::

☐ Radial bearing

☐ Axial bearing

☐ enclosed 

☐ not enclosed 

4. Connecting parts:

bore of housing and tolerance: _____ mm

housing outside ø or width x height: _____ mm

shaft diameter and tolerance: _____ mm

material of housing: _____

shaft material: _____

shaft length: _____

roughness height of shaft Ra: _____ µm

Hardness: _____ HRC

Wolf Kunststoff - Gleitlager GmbH
Heisenbergstr. 63 - 65
D-50169 Kerpen - Türnich
NRW - Germany

Tel.: 0 22 37 - 97 49 - 0
Fax: 0 22 37 - 97 49 - 20
E-Mail: info@zedex.de
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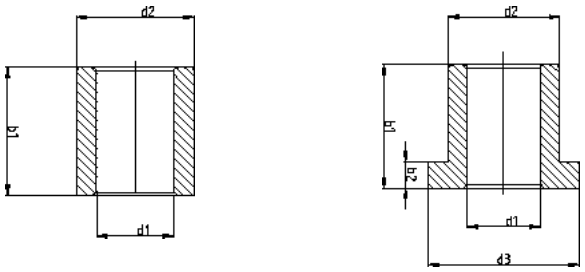
5. Dimensions of bearing:



- Inside diameter d1: _____ mm
- Outside diameter d2: _____ mm
- Collar diameter d3: _____ mm
- Length b1: _____ mm
- Collar thickness b2: _____ mm
- max./ minimum radial clearance: _____ mm / _____ mm
- max. / minimum axial clearance: _____ mm / _____ mm

6. Attachment of the bearing:

- ☐ stiff fit of the bearing in the housing
  - ☐ by a connection
  - ☐ by glueing
  - ☐ _____
- ☐ stiff fit of the bearing on the shaft
  - ☐ by form-fit
  - ☐ by dowel pins
  - ☐ _____
  - ☐ by force closure
  - ☐ by pressing in

7. Surrounding medium:

- ☐ Outside use ☐ Inside use
- ☐ Medium: _____ with a temperatur of _____ °C
- ☐ Air with a temperature of _____ °C
  and a relative humidity of _____ %
- ☐ Chemical (Name) _____
  Concentration: _____ % pH-value: ___ Temp: _____ °C

8. Medium between connecting parts:

8.1. Lubrication

- ☐ No lubrication - dry operation -
- ☐ Oil lubrication
- ☐ Grease lubrication ☐ Grease lubrication unique
- ☐ Water lubrication:
  available water volume flow rate: _____ Kg/s
  existing water flow temperature: _____ °C
  maximum water outlet temperature: _____ °C
- ☐ other:

8.2. Medium between wear part and opposing material

- ☐ Abrasive particles:
  - ☐ Material: _____ ☐ Size: _____
  - ☐ Ammount: _____ ☐ others: _____
  - ☐ as surrounding medium

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9. electrical influences:

Demanded electrical influences:

☐☐ ☐ Penetration resistance _____ kV/mm

☐☐ ☐ Dielectric constant _____

☐☐ ☐ Loss factor _____

☐☐ ☐ Resistivity _____ Ohm/cm

☐☐ ☐ Surface resistance _____ Ohm

10. Load:

10.1. Radial load:

☐ static stress ☐ fatigue stress ☐ cyclic stress

continously: _____ N maximum: _____ N ☐ impact factor: _____

Loading time of static radial load: _____ ms/ s / min / h / days / years

Loading time of max. radial load: _____ ms/ s / min / h / days / years

How often per time unit does the max. radial load occur: _____

Low long are the breaks between the max. radial force: _____

10.1. Axial load:

☐ static stress ☐ fatigue stress ☐ cyclic stress

continously: _____ N maximum: _____ N ☐ impact factor: _____

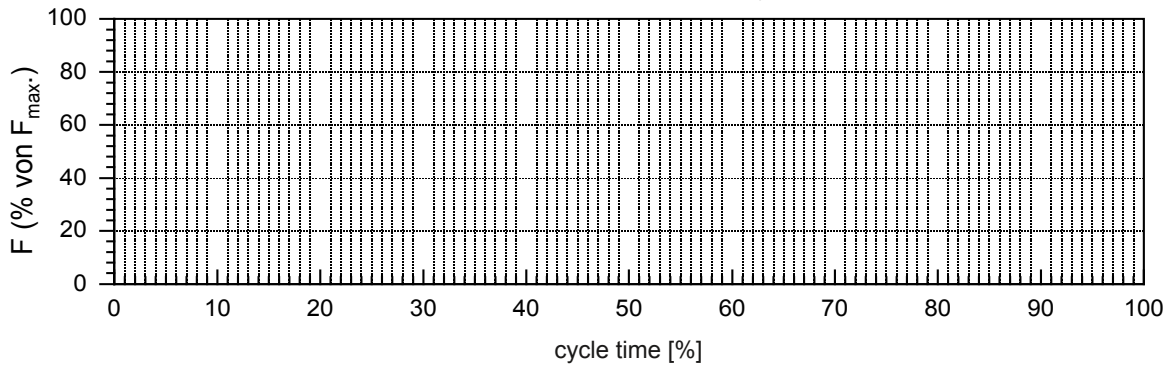
Loading time of the static axial - load: _____ ms/ s / min / h / days / years

Permanence of a load cycle: _____ ms/ s / min / h / days / years

Ammount of load cycles per time unit: _____

How long are the breaks between the load cycles: _____

Please sketch the radial load flow / axial load flow of one cycle



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11. Movement:

☐ no movement further on at 12

☐ no rotation further on at 11.2

11.1 Rotation

permanent screwspeed: _____ maximum screwspeed: _____ min^{-1}

Loading time at permament screwspeed: _____ ms/ s / min / h / days / years

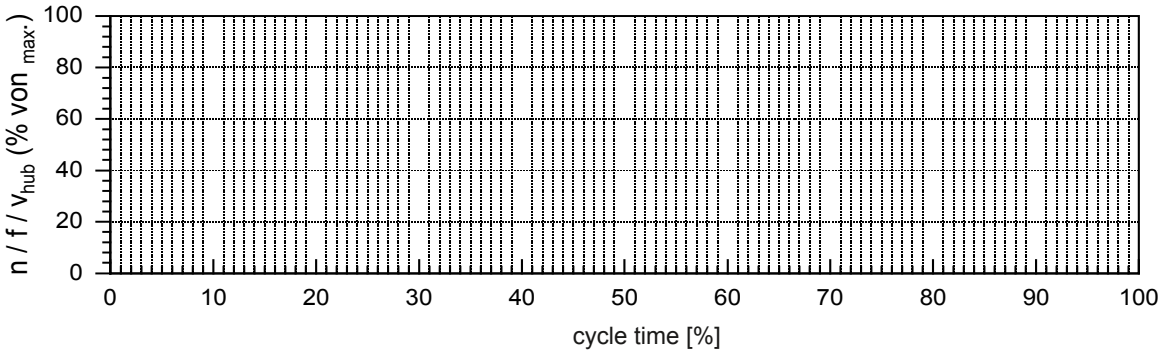
Loading tim at maximunm screwspeed: _____ ms/ s / min / h / days / years

Permanence of one load cycle: _____

Number of load cycles per time unit: _____

How long are the breaks between the load between the load cycles: _____

Please sketch the screw speed flow flow / stroke speed flow / frequency flow of one cycle



☐ no oscillation further on at 11.3

10.2 Oscilation: _____ tilting angle: _____ °

permanent frequency: _____ Hz maximum frequency: _____ Hz

Loading time with perm. frequency: _____ ms/ s / min / h / days / years

Loading time with max. frequency: _____ ms/ s / min / h / days / years

Permanence of one stress cycle: _____

How long are the breaks between the stress cycles: _____

☐ no translation further on at 12

10.3 stroke movement:

Permanent stroke speed

Perm. stroke: _____ mm number of strokes per time unit: _____

Maximum stroke speed

Max. stroke: _____ mm number of strokes per time unit: _____

Loading time of permanent stroke speed: _____ ms/ s / min / h / days / years

Loading time of maximum stroke speed: _____ ms/ s / min / h / days / years

Permanence of one stroke: _____

How long are the breaks between the strokes: _____

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12. Ambient temperature:

☐ sustained temperature: _____ °C

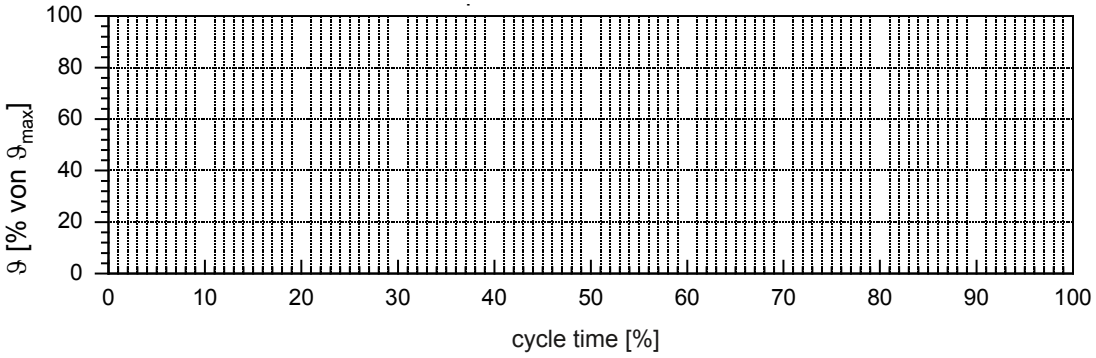
☐ maximum temperature: _____ °C

How often per time unit does the maximum temperature occur: _____

How long does the maximum temperature occur: _____

What medium transfers the temperature: _____

Please sketch the temperature flow



Which movement and load occurs simultaneous with the heat exposure:

Radial load:

☐ none
☐ permanent as at 10.1.
☐ maximum as at 10.1.
☐ other: _____ N

Axial load::

☐ none
☐ permanent as at 10.2.
☐ maximum as at 10.2.
☐ other: _____ N

Movement

☐ Rotation
- ☐ none
- ☐ permanent as at 11.1.
- ☐ maximal wie unter 11.1.
- ☐ other: _____ N

☐ Translation
- ☐ none
- ☐ permanent as at 11.1.
- ☐ maximum as at 11.1.
- ☐ other: _____ N

☐ Oszillation
- ☐ none
- ☐ permanent as at 11.2.
- ☐ maximum as at 11.2.
- ☐ other: _____ N

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13. Working life:

☐ wished working life: _____ h

☐ permissible clearance increase

How often per time unit does the max. Temperature on:

max. radial clearance after _____ hours of operation _____ mm

max- axial clearance after _____ hours of operation _____ mm

14. Miscellaneous:

Special material wishes: _____

Additional conditions to be served: _____

The more information you give to us by this questionaire, the more precise solution we can work out for your application

- Please add a representation or a sketck of your application -

☐ AGM: ☐ KM: ☐ KO:

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