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Questionnaire Wear Parts:

1. general data:

company: _____
street: _____
town: _____
country: _____

date: _____
contact person: _____
compartment: _____
phone nr.: _____
telefax nr.: _____

2. application:

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: _____

○ ○ which precision / dimensional stability is needed: _____

← obligatory demand
← wish-demand

3. industry:

- | | |
|---|---|
| <input type="checkbox"/> machine tool | <input type="checkbox"/> office machines |
| <input type="checkbox"/> car-supplier industry | <input type="checkbox"/> pump manufactory |
| <input type="checkbox"/> tractors, agricultural machinery | <input type="checkbox"/> chemical & apparatus engineering |
| <input type="checkbox"/> domestic appliances | <input type="checkbox"/> general mechanical engineering |
| <input type="checkbox"/> electrical machines | <input type="checkbox"/> trading concern |
| | <input type="checkbox"/> _____ |

4. connecting parts:

shape, dimension and tolerances : _____

- ○ opposed material: _____
- ○ roughness height of the opposed material: _____ $\mu\text{m } R_t$
- ○ hardness of the opposed material: _____ HRC

5. dimensions of the wear part:

- ○ max. length: _____ mm
- ○ max. width: _____ mm
- ○ max. height: _____ mm

6. attachment of the wear part:

- by a connection
- by screw coupling
- by glueing
- _____
- by a positive connection
- by dowel pins
- _____
- by a non positive connection
- by pressing in
- _____

7. surrounding medium:

- outside use
- inside use
- medium: _____ with a temperature of _____ °C
- air with a temperature of _____ °C
and a relative humidity of _____ %
- chemicals
name: _____
concentration: _____ % pH value: _____ temperature: _____ °C

8. medium between connecting surfaces:

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: _____
- other: _____
- same as surrounding medium

9. electrical influences:

demanden electrical characteristics:

- penetration resistance _____ kV/mm
- dielectric constant _____
- loss factor _____
- resistivity _____ Ohm/cm
- surface resistance _____ Ohm

10. load:

10.1. tensile stress:

no tensile stress further on at 10.2.

static stress fatigue stress cyclic stress

continuously: _____ N maximum: _____ N impact factor: _____

loading time of static tensile stress: _____ ms / s / min / h / days / years

loading time of max. tensile stress: _____ ms / s / min / h / days / years

how often per time unit does the max. tensile stress occur: _____

how long are the breaks between the max. tensile stress: _____

10.2. compressive stress:

no compressive stress further on at 10.3.

static stress fatigue stress cyclic stress

continuously: _____ N maximum: _____ N impact factor: _____

loading time of static compressive stress: _____ ms / s / min / h / days / years

loading time of maximum compressive stress: _____ ms / s / min / h / days / years

how often per time unit does the max. compressive stress occur: _____

how long are the breaks between the max. compressive stress: _____

10.3. flexural stress:

no flexural stress further on at 10.4.

static stress fatigue stress cyclic stress

continuously: _____ Nm maximum: _____ Nm impact factor: _____

loading time of static flexural stress: _____ ms / s / min / h / days / years

Belastungsdauer des dauernden Biegemomentes: _____ ms / s / min / h / days / years

how often per time unit does the max. flexural stress occur: _____

how long are the breaks between the max. flexural stress: _____

10.4. torsional stress:

no torsional stress further on at 10.5.

static stress fatigue stress cyclic stress

continuously: _____ Nm maximum: _____ Nm impact factor: _____

loading time of static torsional stress: _____ ms / s / min / h / days / years

loading time of max. torsional stress: _____ ms / s / min / h / days / years

how often per time unit does the max. torsional stress occur: _____

how long are the breaks between the max. torsional stress: _____

10.5. shear stress:

no shear stress further on at 10.6.

static stress fatigue stress cyclic stress

continuously: _____ N/mm² maximum: _____ N/mm² impact factor: _____

loading time of static shear stress: _____ ms / s / min / h / days / years

loading time of maximal shear stress: _____ ms / s / min / h / days / years

how often per time unit does the max. shear stress occur: _____

how long are the breaks between the max. shear stress: _____

10.6. buckling stress:

no buckling stress further on at 11.

static stress fatigue stress cyclic stress

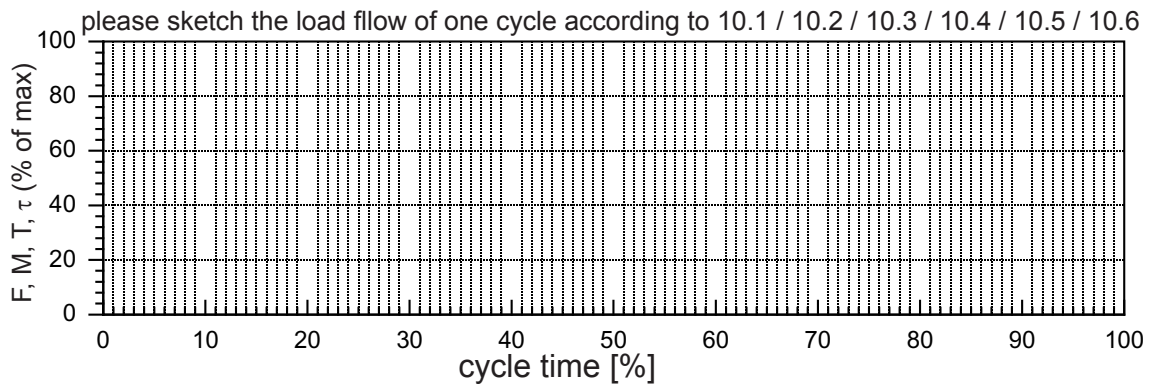
continuously: _____ maximum: _____ impact factor: _____

loading time of static buckling stress: _____ ms / s / min / h / days / years

loading time of max. buckling stress: _____ ms / s / min / h / days / years

how often per time unit does the max. buckling stress occur: _____

how long are the breaks between the max. buckling stress: _____



11. movement:

no movement further on at 12.

tumbling movement

sliding movement

11.1. rotation:

no rotation further on at 11.2.

permanent screw speed: _____ max. screw speed: _____ min⁻¹

loading time of permanent screw speed: _____ ms / s / min / h / days / years

loading time of max. screw speed: _____ ms / s / min / h / days / years

cycle time: _____

number of cycles per time unit: _____

how long are the breaks between the cycles: _____

11.2. oscillation:

no oscillation further on at 11.3

tilting angle: _____ °

permanent frequency: _____ Hz

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

maximum frequency: _____ Hz

loading time of max. frequency: _____ ms / s / min / h / days / years

cycle time: _____

how long are the breaks between the loading cycles: _____

11.3. stroke movement:

no stroke movement further on at 12

permanent stroke speed:

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

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

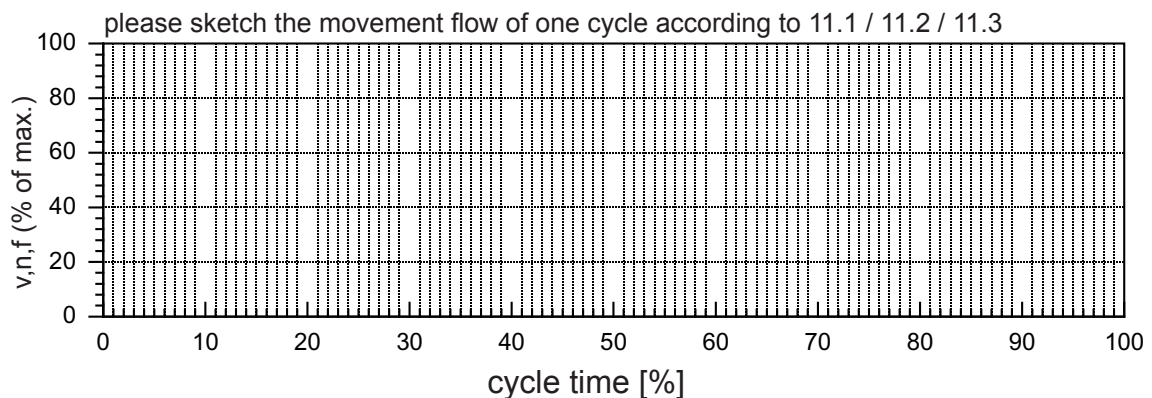
maximum stroke speed: _____

maximum stroke: _____ mm strokes per time unit: _____

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

permanence of one stroke: _____

how long are the breaks between the strokes: _____



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: _____

which movement and load occurs simultaneous with the heat exposure:

tensile stress:

none

permanent as at 10.1.

maximum as at 10.1.

other: _____ N

compressive stress:

none

permanent as at 10.2.

maximum as at 10.2.

other: _____ N

flexural stress:

none

permanent as at 10.3.

maximum as at 10.3.

other: _____ Nm

torsional stress:

none

permanent as at 10.4.

maximum as at 10.4.

other: _____ Nm

shear stress:

none

permanent as at 10.5.

maximum as at 10.5.

other: _____ N/mm²

buckling stress:

none

permanent as at 10.6.

maximum as at 10.6.

other: _____

