



1. Project name / Part number

Date: _____

2. Description of friction lining

- a. Geometric specifications Type of friction lining
- | | | |
|--------------|---------------------|---------------------|
| Ring | Internal shoe brake | Flexible brake band |
| Ring segment | External shoe brake | Others: _____ |
| Brake block | Disc brake | |
- b. Geometric specifications carrier (if necessary/requested) Connection
- | | |
|----------|---------------|
| Bonding | Overmoulding |
| Riveting | Others: _____ |
- c. Please attach drawings / specification sheets
- d. Estimated volume per year: _____
- e. Target price, if known: _____ €/piece

3. Tribological needs

- a. Coefficient of friction
- Coefficient of friction, static: _____
 - Coefficient of friction, dynamic: _____
- b. Wear rates
- Wear rate of friction lining < _____ cm³/kWh
 - Wear rate of friction partner < _____ cm³/kWh
- c. Used test parameters for above values: _____

4. Physical needs

- a. Mechanical properties / strength requirements
- Tensile strength: _____ MPa
 - Impact strength: _____ kJ/m²
 - Ball indentation hardness: _____ N/mm²
 - Hardness Shore D: _____
- b. Metallic raw materials allowed:
- yes
magnetic components allowed? _____
non-magnetic metallic components allowed? _____
 - no

5. Operational conditions

- a. Spec. Contact pressure: N/mm² - min: _____ / max: _____ / normal: _____
- b. Friction speed: m/s - min: _____ / max: _____ / normal: _____
- c. Temperature of mating surfaces: °C - min: _____ / max: _____ / steady: _____
- d. Duration of friction: _____ s
- e. Operating frequency (e.g. 10/h): _____
- f. Friction partner:
- Material: _____
 - Surface condition: _____
 - Coatings / corrosion protection: _____

6. Details of application

a. Type of application

Brake: _____
(e.g. spring applied brake or band brake)
Clutch: _____
(e.g. multiple- or single disc clutch)
Others: _____

b. Description of task and application

c. Contact and frictional substances:

dry
dry, but occasional contact with _____ not excluded
oil; type of oil: _____
grease; type of grease: _____
others: _____

d. Do you already use a friction lining for this application? _____

- i. If yes, which type you are using? _____
- ii. Why do you need another friction lining?
- coefficient of friction too high / coefficient of friction too low
spread of coefficient of friction / fading
wear of lining / wear of friction partner
noise or squeal / vibrations / friction stability
mechanical strength
others: _____

7. Details of environmental conditions

a. Climatic influences

- i. Ambient temperature: min: _____ / max: _____ / normal _____ °C
ii. Operating temperature: min: _____ / max: _____ / normal _____ °C
iii. air humidity: min: _____ / max: _____ / normal _____ %
iv. others: _____

b. Local influences

- i. Liquids (e.g. salty water, acid, lye, etc.) _____
ii. Gases (e.g. Ozone, Ammonia, nitrogen oxide, etc.) _____
iii. Others: _____

c. Application outside of buildings? _____

Onshore
Offshore

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