



1. Project name / Part number

Date: _____

2. Description of friction lining

a. Geometric specifications

i. Type of friction lining

- | | | |
|---------------------------------------|--|--|
| <input type="checkbox"/> Ring | <input type="checkbox"/> Internal expanding shoe brake | <input type="checkbox"/> Flexible brake band |
| <input type="checkbox"/> Ring segment | <input type="checkbox"/> External expanding shoe brake | <input type="checkbox"/> Others: _____ |
| <input type="checkbox"/> Brake block | | |

b. Geometric specifications carrier (if necessary/requested)

i. Connection

- | | |
|-----------------------------------|--|
| <input type="checkbox"/> Bonding | <input type="checkbox"/> Overmoulding |
| <input type="checkbox"/> Riveting | <input type="checkbox"/> Others: _____ |

c. Please attach drawings / specification sheets if possible.

d. Estimated volume per year: _____

e. Target price, if known: _____ \$/piece

3. Tribological needs

a. Coefficient of friction

i. Coefficient of friction, static: _____

ii. Coefficient of friction, dynamic: _____

b. Wear rates

i. Wear rate of friction lining < _____ in³/hph

c. Test parameters used for above values: _____

4. Physical needs

a. Mechanical properties / strength requirements

i. Tensile strength: _____ lb/in²

ii. Impact strength: _____ lbin/in²

iii. Ball indentation hardness: _____ N/mm²

iv. Hardness Shore D: _____

b. Metallic raw materials allowed:

- i. yes
magnetic components allowed? _____
non-magnetic metallic components allowed? _____
- ii. no

5. Operational conditions

a. Spec. Contact pressure: N/mm² - min: _____ / max: _____ / normal: _____

b. Friction speed: ft/min - min: _____ / max: _____ / normal: _____

c. Temperature of mating surfaces: °F - min: _____ / max: _____ / steady: _____

d. Duration of friction: _____ s

e. Operating frequency (e.g. 10/h): _____

f. Friction partner:

i. Material: _____

ii. Surface condition: _____

iii. 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: _____ °F
- ii. Operating temperature: min: _____ / max: _____ °F
- iii. air humidity: min: _____ / max: _____ %
- 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? _____

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