

## Datasheet AS 307

**Material description:** Asbestos-free, phenolic resin bonded friction material with glass fiber reinforcement yarn spiral woven with fine copper core, containing brass and metal fibers.

**Application:** Clutch facings for cars and light commercial vehicles, friction blocks for presses, recommended friction surface: fine grained pearlitic grey cast iron.

**Resistance:** Non-resistant to oil, oil drops might be possible (not tested).

- (1): Test standard.  
(2): No test standard.

The listed temperatures in this datasheet are average friction surface temperatures at the surface of brake lining and/or drum or disc. By the maximum permitted temperature (intermittent operation) is meant a peak value that might be reached in an emergency situation. If this temperature is lasting for more than two minutes, the friction material can get permanently damaged. To exceed this temperature limit can cause as well a very strong decrease of the friction coefficient. The maximum temperature in the area of lining attachments shall generally not exceed the value of 200 °C. Differences in color cannot be excluded due to natural raw materials.

| Availability | Unit | Value |
|--------------|------|-------|
| Width        | mm   | >30   |
| Length       | mm   | <760  |

| Physical Properties                              | Test Standard | Unit              | Value                |
|--|---------------|-------------------|----------------------|
| Density (specific gravity)                       |               | g/cm <sup>3</sup> | 1.8-1.9              |
| Hardness (shore D)                               | DIN 53505     |                   | 70-80 <sup>(2)</sup> |
| Ignition loss                                    |               | %                 | 38-44                |
| Acetone extraction                               |               | %                 | <1.5                 |
| Dynamic friction coefficient $\mu$ (79 N, 7 m/s) |               |                   | 0.45±0.05            |

| Thermal Properties                        | Test Standard | Unit | Value |
|---|---------------|------|-------|
| Temperature (intermittent max. permanent) |               | °C   | <350  |
| Temperature (continuous max. permanent)   |               | °C   | <250  |

### Friction Properties

