

ID Material: 331  
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FF

FF is a grey molded friction material enhance with, metallic components in order to increase its resistance when it is exposed to high temperatures, and glass fiber for better strength resistance. Moreover, there are inside resin, rubbers, fibers (mineral and metallic) and asbestos free

We manufacturing moulded parts with specific mould, at high pressure and temperature.

## Material data

### Friction Properties (according graphics)

|  |            |    |
|--|------------|----|
| Static Friction Coefficient (15bar, from box): | 0.5±0.05   | μ  |
| Static Friction Coefficient (15bar, 100°C):    | 0.50±0.05  | μ  |
| Dynamic Friction Coefficient:                  | see charts |    |
| Wear Rate:                                     | see charts |    |
| T° Fading:                                     | >350       | °C |

### Physical properties

|                                    |          |         |
|------------------------------------|----------|---------|
| Hardness (DIN53505):               | 75±5     | Shore-D |
| Specific Gravity (ASTM D792):      | 1.9±0.1  | gr/cm3  |
| Acetone Extraction (ASTM D494):    | 35       | %       |
| Thermal Conductivity (ASTM E1952): | 0.28±0.1 | W/m²K   |

### Mechanical properties

|                                      |          |       |
|--------------------------------------|----------|-------|
| Tensile Strength (ASTM D638):        | 14±5     | N/mm² |
| Compressive Strength (ISO 844:2014): | 75±5     | N/mm² |
| Shear Modulus (ASTM D2344-00):       | 2418±100 | N/mm² |

### Recommended Working Values

|                                 |     |     |
|---------------------------------|-----|-----|
| T° Max. Continuous Operation:   | 250 | °C  |
| T° Max. Intermittent Operation: | 380 | °C  |
| Max. pressure:                  | 100 | Bar |
| Max. Rubbing Speed:             | 30  | m/s |

Material type : Rigid material

### Appearance / Formats



Bonded

Machined

Shoes

### Applications

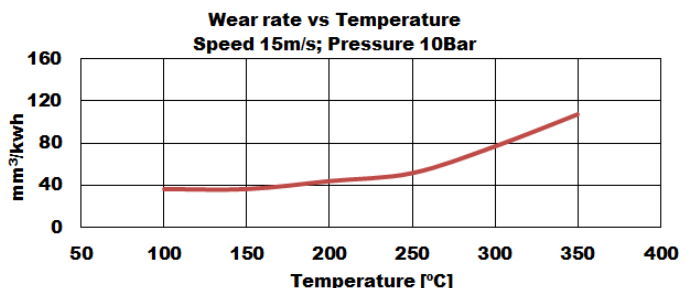
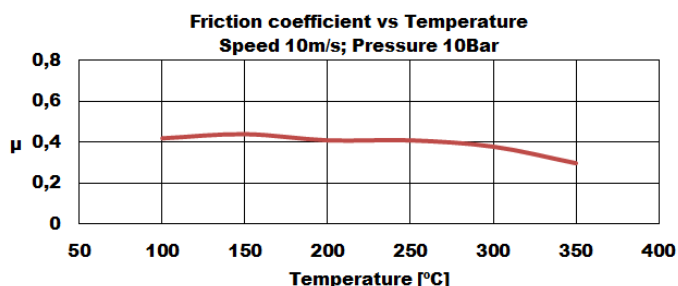
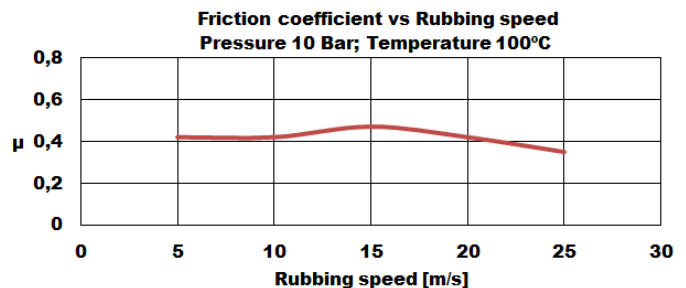
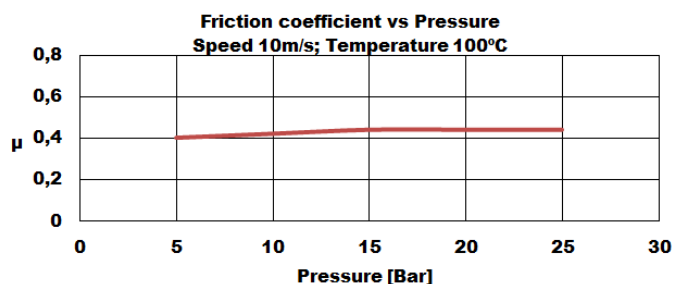
Agricultural and building machinery - Drum Brakes - Industrial drum and band brakes - Miscellaneous industrial brakes / clutches

Price Level : € € €

Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

### Others

|                             |  |
|-----------------------------|--|
| Recommended Mating Surface: | Perlitic cast iron, hardness HB150-200 |
| Recommended Adhesives:      | Thermosetting adhesive                 |
| Oil Resistant:              | Yes                                    |



Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.