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science friction

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# D3920

D3920 is a rigid moulded friction material, light green in colour. D3920 is a non-asbestos basis of short steel filaments in a random dispersion to enhance its heat dissipation properties and strength. It incorporates a blend of carefully selected friction modifiers and a binder which has been specially developed to enhance its properties. Whilst not affected physically by slight oil contamination, this material is not intended to operate in oil.

## Material data

### Friction Properties (according graphics)

| | | |
|---|---|---|
| Static Friction Coefficient (15bar, 100ºC): | 0.38 | µ |
| Dynamic Friction Coefficient: | see charts | |
| Wear Rate: | see charts | |
| Tº Fading: | 300 | °C |

### Physical properties

| | | |
|---|---|---|
| Hardness (DIN53505): | 75±5 | Shore-D |
| Specific Gravity (ASTM D792): | 2.3±0.5 | gr/cm3 |
| Thermal Conductivity (ASTM E1952): | 1.034 | W/m°K |

### Mechanical properties

| | | |
|---|---|---|
| Tensile Strength (ASTM D638): | 15±5 | $N/mm^2$ |
| Compressive Strength (ISO 844:2014): | 90±10 | $N/mm^2$ |
| Ultimate Shear Strenght (ASTM D732): | 12±2 | $N/mm^2$ |

### Recommended Working Values

| | | |
|---|---|---|
| T° Max. Continuous Operation: | 175 | °C |
| T° Max. Intermittent Operation: | 225 | °C |
| Max. Rubbing Speed: | 25 | m/s |

**Material type :** Flexible material

### Appearance / Formats

Rolls

### Applications

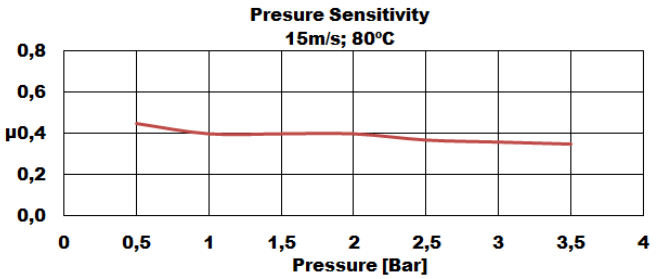
Crane and excavator brakes and clutches - Industrial drum and brand brakes - Miscellaneous industrial brakes / clutches

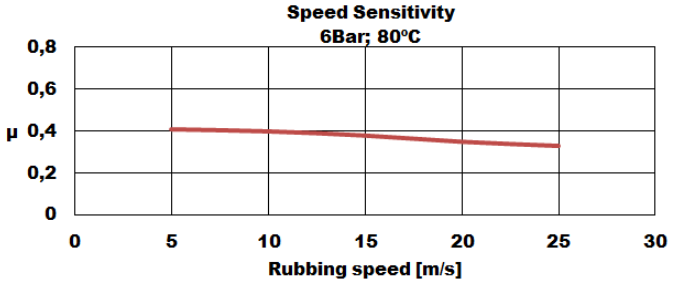
**Price Level :** € € €

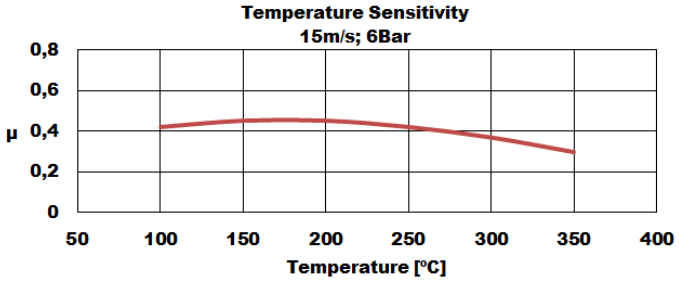
**Reach (EC)1907/2023 - RoHS 2015/863/EU :** Yes

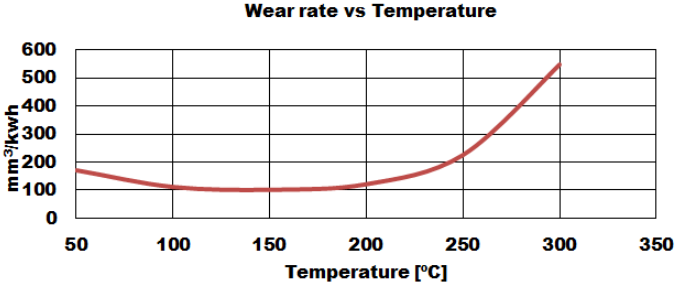
### Others

| | |
|---|---|
| Recommended Mating Surface: | Perlitic cast iron, hardness HB150-200 |
| Recommended Adhesives: | Thermosetting adhesive |
| Oil Resistant: | No |




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.