Frenos Sauleda s.a.
science friction

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# SA92

SA92 is a Frenos Sauleda standard formulation which is suitable for light medium duty. It is a rigid material, with low wear and very stable friction performance.The material main composition is phenol resins with a NBR bonding system, short fibres, friction modifiers and fillers. SA92 is fully cured and suitable for bonding and riveting.

## Material data

### Friction Properties (according graphics)

| | | |
|---|---|---|
| Static Friction Coefficient (15bar, from box): | 0.48±0.05 | μ |
| Static Friction Coefficient (15bar, 100ºC): | 0.53±0.05 | μ |
| Dynamic Friction Coefficient: | see charts | |
| Wear Rate: | see charts | |
| Tº Fading: | >350 | °C |

### Physical properties

| | | |
|---|---|---|
| Hardness (DIN53505): | 85±5 | Shore-D |
| Specific Gravity (ASTM D792): | 1.83±0.05 | gr/cm3 |
| Shear resistance (ISO 6312:2001): | 22±2 | $N/mm^2$ |

### Mechanical properties

| | | |
|---|---|---|
| Tensile Strength (ASTM D638): | 13±5 | $N/mm^2$ |
| Compressive Strength (ISO 844:2014): | 150±5 | $N/mm^2$ |
| Shear Modulus (ASTM D2344-00): | 1534±100 | $N/mm^2$ |
| Poisson Coefficient (ASTM D638): | 0.27±0.03 | |
| Young Modulus (ASTM D638): | 3896±100 | $N/mm^2$ |

### Recommended Working Values

| | | |
|---|---|---|
| T° Max. Continuous Operation: | 250 | °C |
| T° Max. Intermittent Operation: | 350 | °C |

### Material type : Rigid material

### Appearance / Formats

### Applications

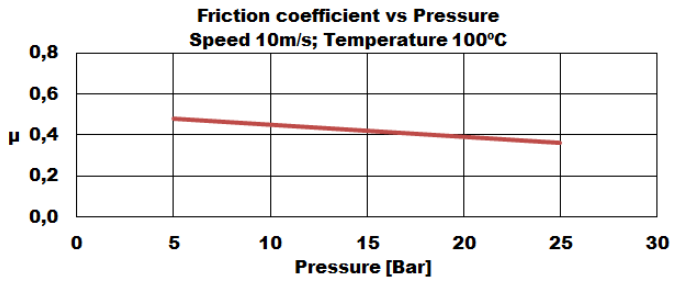
Agricultural and bulding machinery - Callipers for industrial applications - Cones segments for machinery - Friction washers - Gear discs for industrial devices - Industrial clutches - Rings segments for machinery

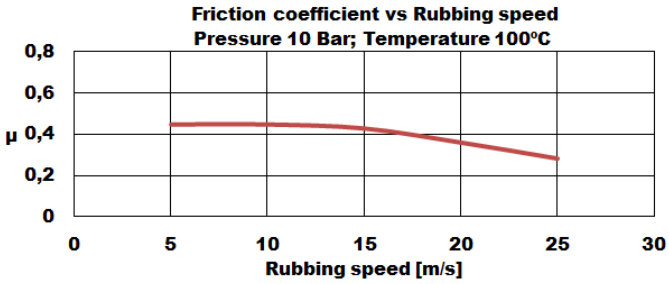
### Price Level : € € €

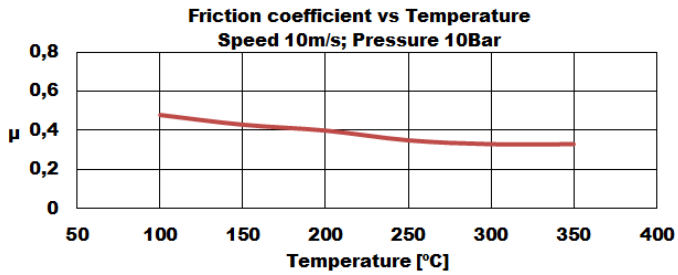
### Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

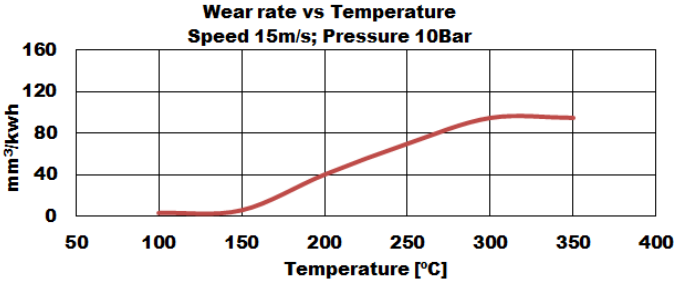
### Others

| | |
|---|---|
| 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.