

# SA80/05

ID Material: 24  
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Revision: 5  
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SA80/0.5 is a rigid and molded friction material and is developed for industrial applications. The most noted characteristic of this material is the high coefficient. SA80/0.5 is fully cured and suitable for bonding and riveting.

## Material data

### Friction properties (according graphics)

|  |           |                      |
|--|-----------|----------------------|
| Static Friction Coefficient (15bar, from box): | 0.50±0.05 | μ                    |
| Static Friction Coefficient (15bar, 100°C):    | 0.60±0.05 | μ                    |
| Dynamic Friction Coefficient (10bar, 10m/s):   | 0.57±0.05 | μ                    |
| Wear Rate (10bar, 15m/s):                      | 150±10    | mm <sup>3</sup> /Kwh |
| T° Fading (10bar, 10m/s):                      | >350°C    | °C                   |

### Physical properties

|                                       |           |                    |
|---------------------------------------|-----------|--------------------|
| Hardness (DIN53505):                  | 80±5      | Shore-D            |
| Specific Gravity (ASTM D792-91):      | 1.85±0.05 | gr/cm <sup>3</sup> |
| Ignition Loss (ASTM D-2524):          | 45±2      | %                  |
| Acetone Extraction ISO2859-1:         | 2±0.2     | %                  |
| Thermal Conductivity (ASTM E1952-01): | 0.4±0.01  | W/m°K              |

### Mechanical properties

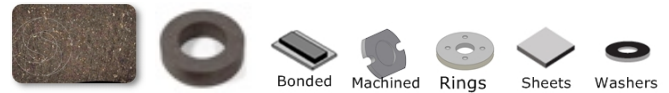
|                                   |           |                   |
|-----------------------------------|-----------|-------------------|
| Tensile Strength (ASTM D638-10):  | 9±5       | N/mm <sup>2</sup> |
| Compressive Strength (UNE 53205): | 102±5     | N/mm <sup>2</sup> |
| Poisson Coefficient:              | 0.23±0.03 |                   |
| Young Modulus (ASTMD 638-10):     | 2413±100  | N/mm <sup>2</sup> |

### Recommended Working Values

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

Material type : Rigid material

### Appearance / Formats



### Applications

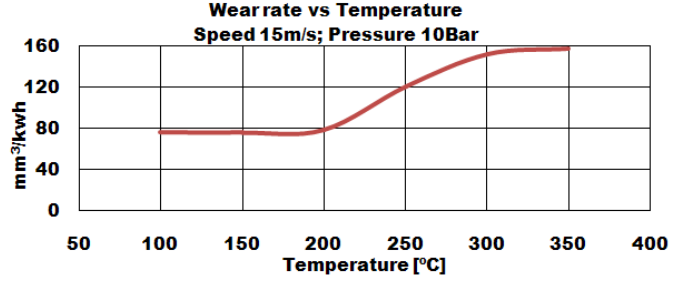
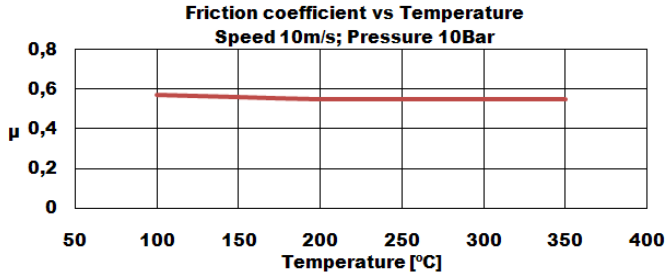
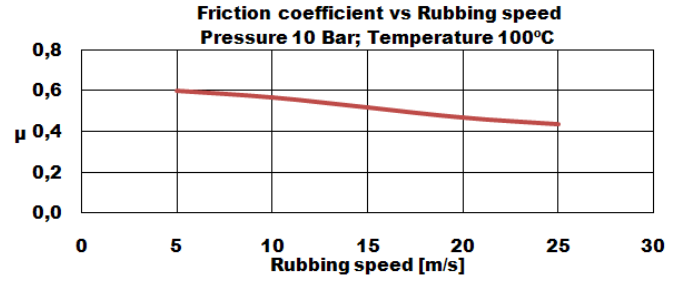
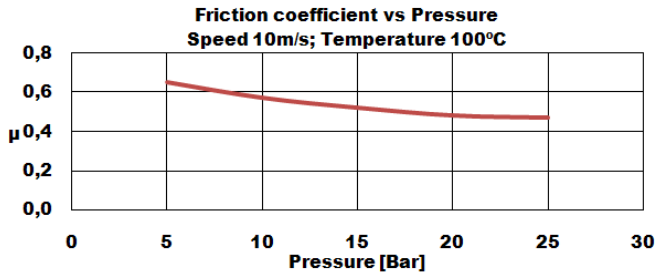
Brake pads - Electro-magnetic brakes - Friction washers - Industrial clutches - Static brakes - Torque limiter -

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/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.