

ID Material: 24  
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# SA80/05

SA80/0.5 is a rigid and free metal parts 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:	see charts	
Wear Rate:	see charts	
T° Fading:	>350	°C

### Physical properties

Hardness (DIN53505):	80±5	Shore-D
Specific Gravity (ASTM D792):	1.85±0.05	gr/cm <sup>3</sup>
Ignition Loss (ASTM D7348):	45±2	%
Acetone Extraction (ASTM D494):	2±0.2	%
Thermal Conductivity (ASTM E1952):	0.4±0.01	W/m <sup>2</sup> K

### Mechanical properties

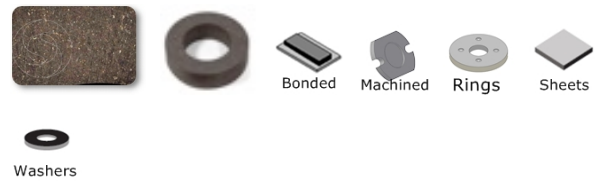
Tensile Strength (ASTM D638):	9±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	102±5	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.23±0.03	
Young Modulus (ASTM D638):	2413±100	N/mm <sup>2</sup>

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

### Others

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

