

ID Material: 18  
Rble: R. Antich  
Revision: 5  
Last updated: 07/05/2018

# SA80/20

SA80/20 is black rigid friction material based on graphite with a medium low friction coefficient, offers low wear and silent operation. The material consists phenolic resins as a bonding system, short fibers, friction lubricants and fillers. SA80/20 is fully cured and suitable for bonding and riveting.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.35±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.42±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.35±0.05	μ
Wear Rate (10bar, 15m/s):	25±5	mm <sup>3</sup> /Kwh
T <sup>9</sup> Fading (10bar, 10m/s):	>350°C	°C

### Physical properties

Hardness (DIN53505):	75±5	Shore-D
Specific Gravity (ASTM D792-91):	1.8±0.05	gr/cm <sup>3</sup>
Ignition Loss (ASTM D-2524):	36±2	%
Acetone Extraction ISO2859-1:	1.85±0.2	%

### Mechanical properties

Tensile Strength (ASTM D638-10):	16±5	N/mm <sup>2</sup>
Compressive Strength (UNE 53205):	83±5	N/mm <sup>2</sup>
Young Modulus (ASTMD 638-10):	3500±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	300	°C
T° Max. Intermittent Operation:	350	°C

Material type : Rigid material

### Appearance / Formats



### Applications

Callipers for industrial applications - Continuous brakes - Friction washers - 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

