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ID Material: 18
Rble: R. Antich
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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 propieties (according graphics)

Static Friction Coefficient (15bar, from box):	0.35±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.42±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	75±5	Shore-D
Specific Gravity (ASTM D792):	1.8±0.05	gr/cm3
Ignition Loss (ASTM D7348):	36±2	%
Acetone Extraction (ASTM D494):	1.85±0.2	%

Mechanical properties

Tensile Strength (ASTM D638):	16±5	N/mm^2
Compressive Strength (ISO 844:2014):	83±5	N/mm^2
Young Modulus (ASTM D638):	3500±100	N/mm^2

Recommended Working Values

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

Material type : Rigid material

Appearance / Formats

Applications

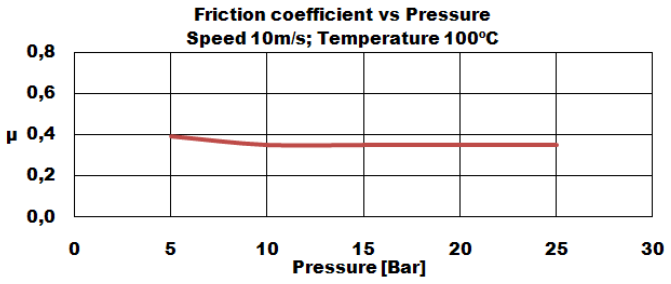
Callipers for industrial applications - Continuous brakes - Friction washers - Torque limitator

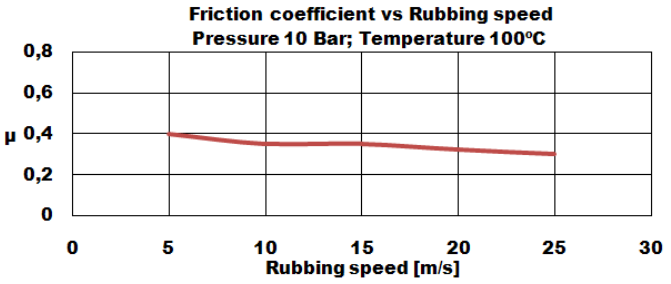
Price Level : € € €

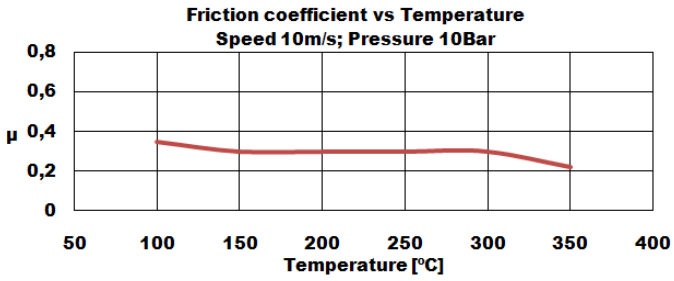
Reach (EC)1907/2006 - RoHS 2011/65/EU : Compliance

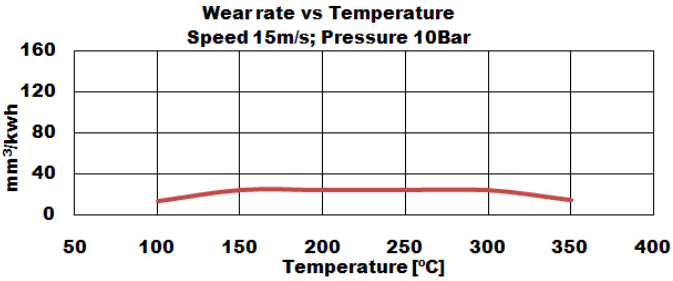
Others

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.