

ID Material: 24
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SA80/05

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 (79N, 7m/s):	200±10	mm ³ /Kwh
T° Fading (100N, 11.5m/s):	330±10	°C

Physical properties

Hardness (DIN53505):	88±5	Shore-D
Specific Gravity (ASTM D792-91):	1.85±0.05	gr/cm ³
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 ² K

Mechanical properties

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

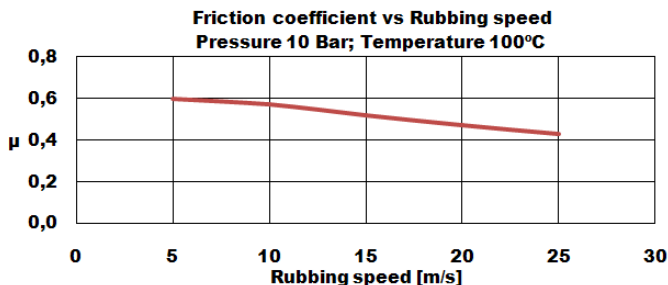
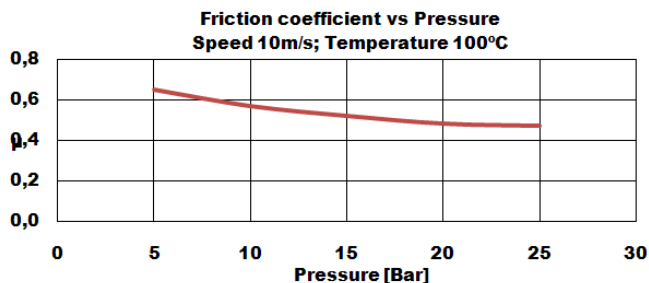
Brake pads - Electro-magnetic brakes - Friction washers - Industrial clutches - Static brakes - Torque limiter -

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.