

ID Material: PA
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SA7251

SA5251 is rigid moulded, asbestos free friction material on a elastomeric/resin matrix, reinforced with synthetic fibers, without metal components. This matrix help so much at mechanical propieties. SA7251 is fully cured material and is suitable for bonding & rivetting.

Material data

Friction Properties (according graphics)

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

Physical properties

Hardness (DIN53505):	82±5	Shore-D
Specific Gravity (ASTM D792):	1.70 ± 0.1	gr/cm3
Thermal Conductivity (ASTM E1952):	0.49±0.01	W/m²K

Mechanical properties

Tensile Strength (ASTM D638):	25±5	N/mm²
Compressive Strength (ISO 844:2014):	130±5	N/mm²
Young Modulus (ASTM D638):	2510±100	N/mm²

Recommended Working Values

T° Max. Continuous Operation:	<250	°C
T° Max. Intermittent Operation:	<400	°C
Max. pressure:	<50	Bar
Max. Rubbing Speed:	<40	m/s

Material type : Rigid material

Appearance / Formats



Sheets

Shoes

Machined

Rings

Applications

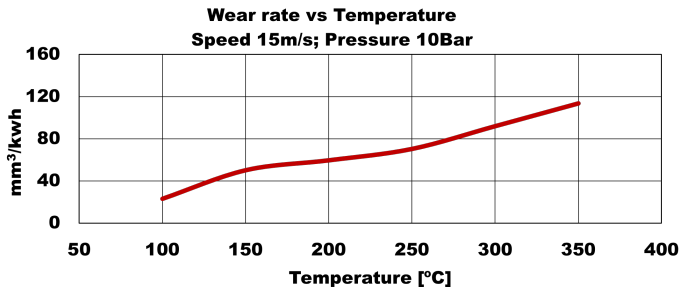
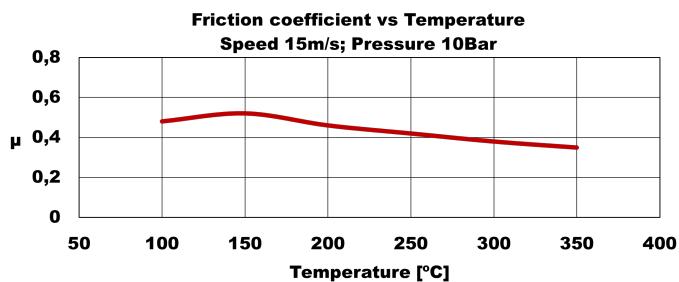
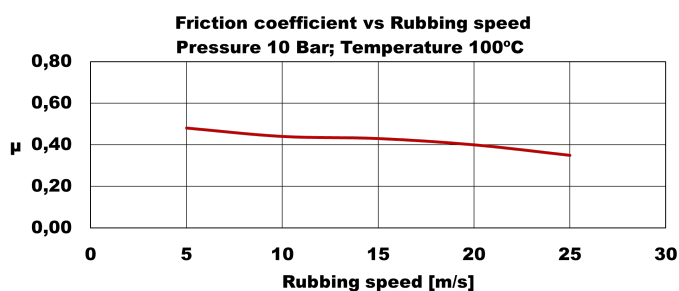
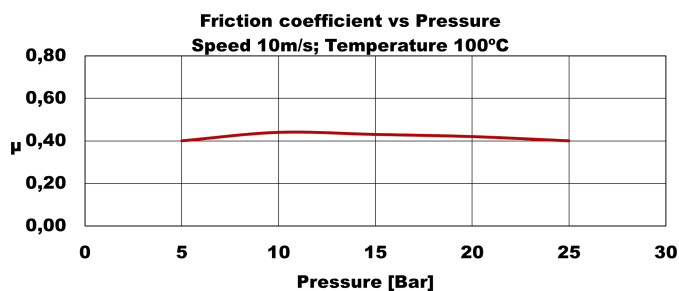
Brake pads - Drum Brakes - Industrial clutches - Miscellaneous industrial brakes / clutches - Rings segments for machinery

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:	Poor



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.