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science friction

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ID Material: 96
Rble:
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ST-06

ST06 is developed for static applications, it is rigid and moulded friction material. Its most noted characteristics are hardness, mechanical strength and resistance to temperature. Its co efficiency is very high. It is composed basically of resins and rubber as a link system with friction modifying agents. The mineral fibres enhance the strength which helps to establish the friction value. ST06 is fully cured and suitable for bonding and riveting.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.40±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.43±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	83±5	Shore-D
Specific Gravity (ASTM D792):	1.80±0.05	gr/cm3

Mechanical properties

Tensile Strength (ASTM D638):	23±5	N/mm^2
Compressive Strength (ISO 844:2014):	120±5	N/mm^2
Shear Modulus (ASTM D2344-00):	3705±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	9190±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


Bonded


Machined


Sheets

Applications

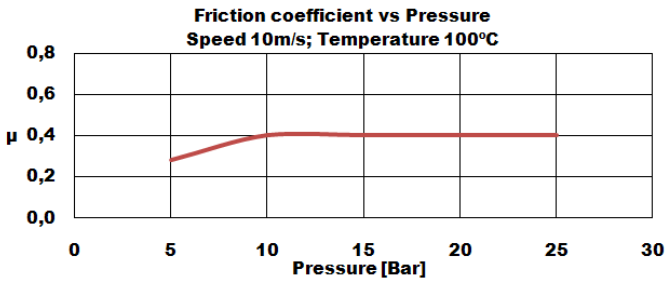
Callipers for industrial applications - Damper Technologies - Forging machinery - Heavy duty static applications - Holding Mechanical Structures - Punch-die press blocks - Static brakes - Yaw brakes

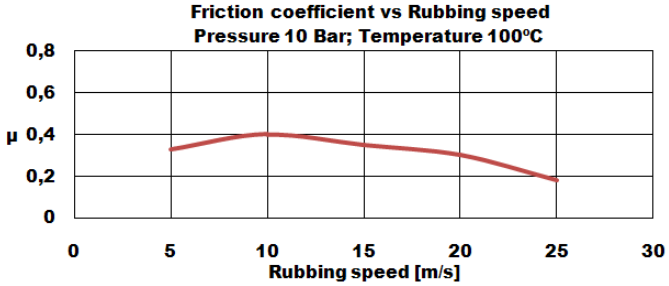
Price Level : € € €

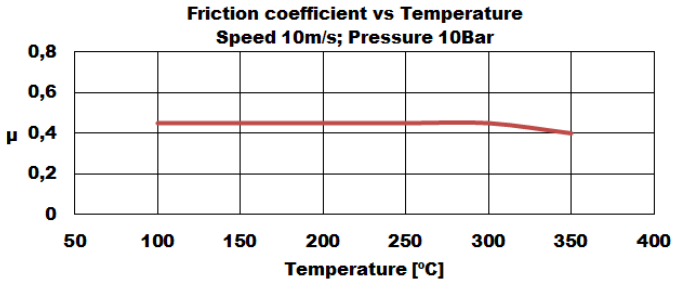
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

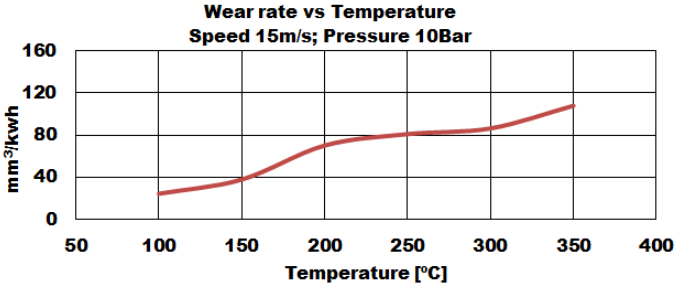
Others

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









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.