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science friction

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ID Material	BJ
Responsable	R.Antich
Revision	1
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SA65

SA65 is a rigid and free metal parts friction material and is developed for industrial Applications. It's composed of resins and rubber as a link system, with friction modifier agents for have the highest friction coeficient. It resists high energy inputs and it is a preffectlly suitable for dry Applications. SA65 is fully cured material and is suitable for bonding & rivetting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.55±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.60±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.65±0.05
Wear Rate (@10bar, 15m/s)	45 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	2.0±0.1 gr/cm3
Ignition Loss (ASTM D7348)	40±2 %
Acetone Extraction (ASTM D494)	0.15±0.02 %

Mechanical properties

Tensile Strength (ASTM D638)	25±5 N/mm²
Compressive Strength (ISO 844:2014)	180±5 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	350 °C
Tº Max. Intermittent Operation	450 °C

Material type

Rigid

Appearance / Formats



Applications

Brake pads · Callipers for industrial applications · Heavy duty static applications · Heavy-duty industrial machinery · Industrial clutches · Mining industries · Rotor Brake

Price Level

€ € €

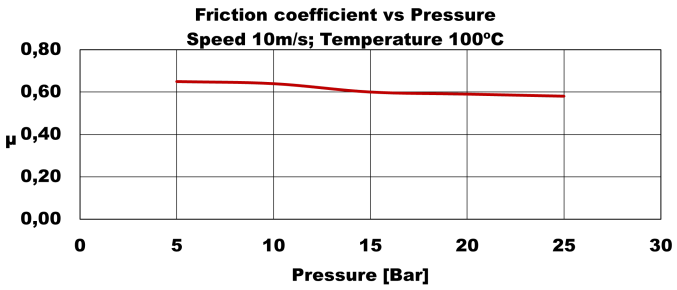
Reach (EC)1907/2023 - RoHS 2015/863/EU

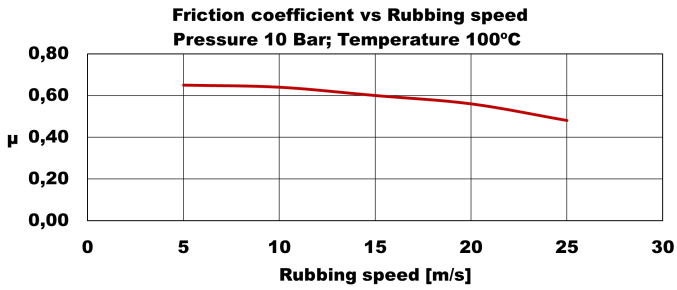
Compliance

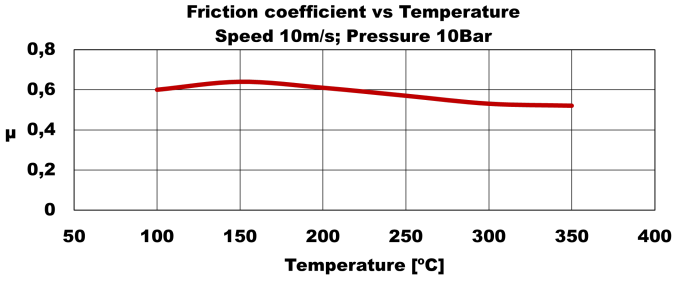
Others

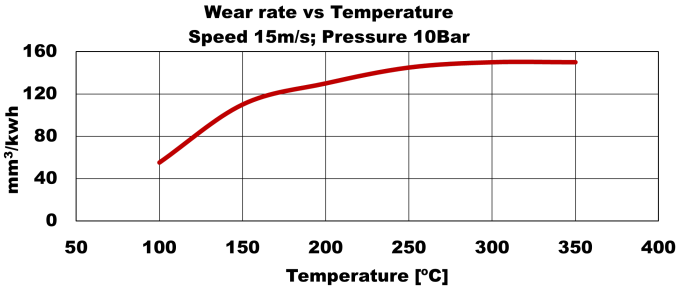
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

Charts









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.