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science friction

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ID Material: 97
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SA510

SA510 is a copper based sintered friction material for dry running applications. A special combination of solid lubricants and friction coefficient-stabilisers gives high wear resistance even under high energy conditions. SA510 is free of nickel, lead, and antimony.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, 100ºC):	0.50±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	

Physical properties

Hardness (DIN53505):	90±5	Shore-D
Specific Gravity (ASTM D792):	5.25±0.5	gr/cm3
Thermal Conductivity (ASTM E1952):	23 at 400ºC	W/m°K

Mechanical properties

Recommended Working Values

T° Max. Continuous Operation:	600	°C
T° Max. Intermittent Operation:	900	°C
Max. Rubbing Speed:	100	m/s

Material type : Rigid material

Appearance / Formats

Bonded

Applications

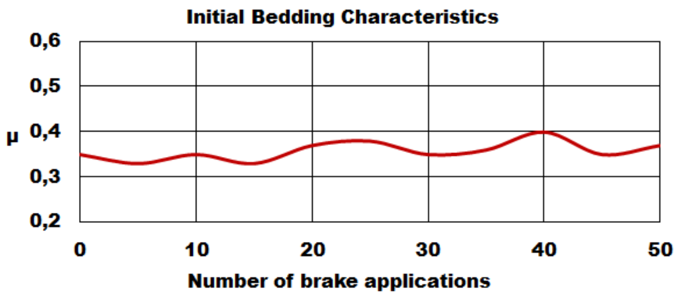
Crane and excavator brakes and clutches - Heavy loaded Winches and Cranes - Heavy vehicle clutches - Rotor Brake

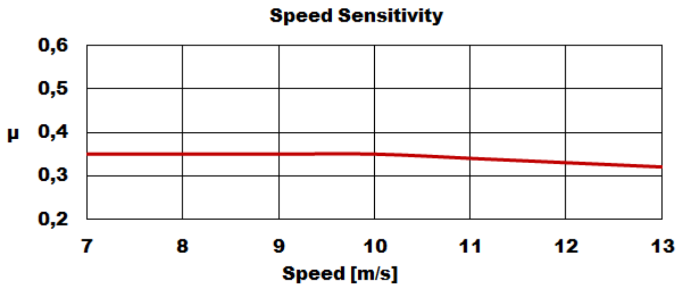
Price Level : € € €

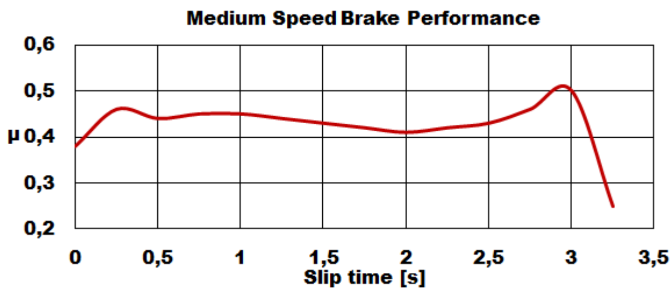
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

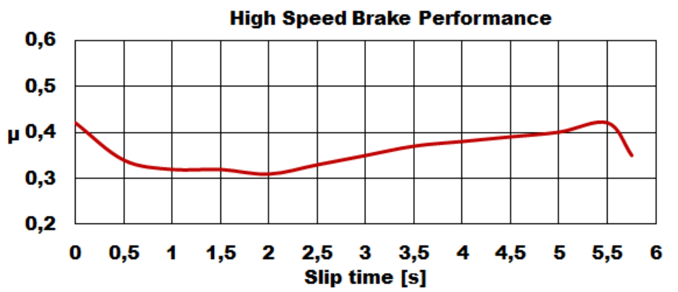
Others

Recommended Mating Surface:	ST52.3 (S355J2G3) or equivalent









Rubbing speed, temperature and pressure are related. Changing any values will change others. The values shown represent typical conditions, but are not ultimate limits of the material