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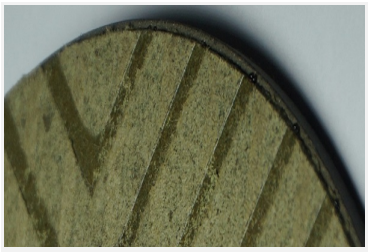
Datasheet AB3110



Nonmetallic paper bonded friction material (kevlar fibers) with high percentage of aramid fiber, high wear resistance, low abrasion to counter material (alternative for sintered metalliferous materials). Application: Used over a wide range of applications, passenger cars and motorcycle clutches, heavy vehicle clutches, industrial brakes and clutches of dry and wet applications. The listed temperatures in this datasheet are average friction surface temperatures at the surface of brake lining and/or drum or disc. By the maximum permitted temperature (intermittent operation) is meant a peak value that might be reached in an emergency situation. If this temperature is lasting for more than two minutes, the friction material can get permanently damaged. To exceed this temperature limit can cause as well a very strong decrease of the friction coefficient. The maximum temperature in the area of lining attachments shall generally not exceed the value of 200 °C. Differences in color cannot be excluded due to natural raw materials.

Application

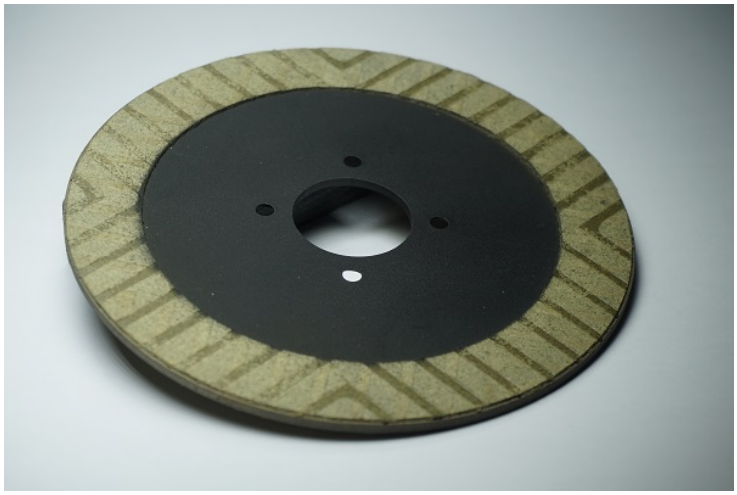
Brake material for heavy vehicle clutches, industrial brakes and clutches of dry and oil-immersed applications

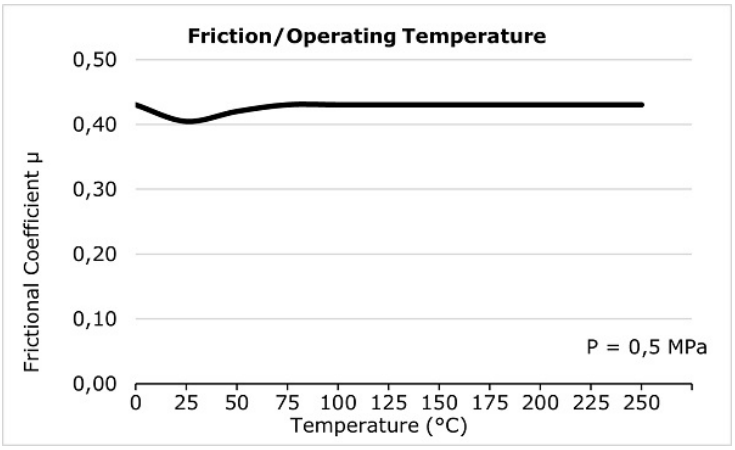
Material

Pressed nonmetallic paper bonded with high percentage of kevlar fiber

Availablity

	Value	Unit
Length standard	on request	
Sheet thickness	on request	
Sheet size	on requist	





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AB3110 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ASTM D792	1,35	g/cm³
Poisson factor	ASTM D638	0,27	[-]
Thermal conductivity	ASTM E1952	0,25	W/m°K

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 844:2014	306	MPa
Module of elasticity - Youngs modulus	ASTM D638	7300	MPa
Tensile strength	ASTM D638	70	MPa
Hardness	DIN 53505	85	SHORE-D

Thermal properties

	Test standard	Value	Unit
Max. working temperature		360	°C
Intermittent working temperature		400	°C
Fading temperature		>400	ºC

Friction properties

	Test standard	Value	Unit
Coefficient of friction static	15 bar, from box	0,4	[-]
Coefficient of friction dynamic		on request	
Wear factor		on request	

Electrical properties

	Test standard	Value	Unit