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Datasheet AB3160

Asbestos-free, pressed composite friction material containing metallic components. AB3160 is based on phenolic resins with NBR rubber bonding system, containing short fibers, organic components, friction modifiers, metallic particles, and fillers. AB3160 is suitable for dry and oil immersed applications. AB3160 is not abrasive to the counter face material and is silence in operation. AB3160 is resistant to high pressure. It has low wear rate even at high temperatures.

Application

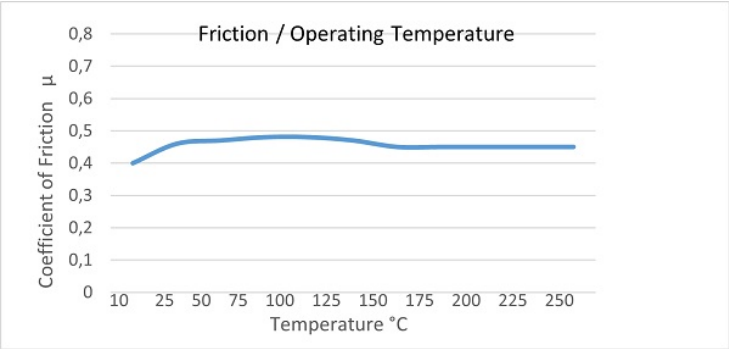
High performance friction material suitable for industrial applications such as calipers, friction washers, industrial brakes and clutches, and torque limitators

Material

Asbestos-free, pressed composite with metallic components

Availablity

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



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AB3160 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ASTM D792	1,85	g/cm³
Poisson factor	ASTM D638	0,21	[-]
Thermal conductivity	ASTM E1952-01	0,33	W/m°K

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 844:2014	100	MPa
Module of elasticity - Youngs modulus	ASTM D638	2500	MPa
Tensile strength	ASTM D638	10	MPa
Shear Modulus	ASTM D2344-00	1100	MPa
Hardness	DIN 53505	80	Shore D

Thermal properties

	Test standard	Value	Unit
Max. working temperature		250	°C
Intermittent working temperature		350	°C
Fading temperature		>340	ºC

Friction properties

	Test standard	Value	Unit
Coefficient of friction static	15 bar, from box	0,55	[-]
Coefficient of friction dynamic	Factory Laboratory test	0,45	[-]
Wear factor		on request	

Electrical properties

	Test standard	Value	Unit