ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet AB3490



Asbestos-free, rigid moulded, fully cured composite friction material. Bases on resins and rubber as bonding system, containing friction modifiers, mineral fibers and fine copper particles. AS 3460 is an alternative for sintered metal friction materials. It will resist high energy inputs and is suitable for dry and oil-immersed applications. AS 3460 is mediate abrasive to the counter face material. Application: High performance friction material suitable for heavy duty, wet and dry industrial applications such as forge industry, punch die press blocks, rings and segments. Recommended mating surface: pearlitic grey cast iron, but also steel qualities are permitted. Hardness between HB 150 and 200. Characteristics: Resistant to oil. The listed temperatures in this data sheet 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. Very high and stable fiction coefficient and excellent resistance to fading. Differences in colour cannot be excluded due to natural raw materials. Suitable for bonding and riveting.

Application

Heavy duty, wet and dry industrial applications such as forge industry, punch die press blocks, rings and segments

Material

Pressed friction material with mineral fibersand copper.

Availablity

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

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
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AB3490 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ASTM D792	1,85	g/cm³
Poisson factor	ASTM D638	0,23	[-]
Thermal conductivity	ASTM E1952	0,40	W/m°K

Mechanical properties

	Test standard	Value	Unit
Compressive strength static	ISO 844:2014	102	MPa
Module of elasticity - Youngs modulus	ASTM D638	2413	MPa
Tensile strength	ASTM D638	9	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		>350	ºC

Friction properties

	Test standard	Value	Unit
Coefficient of friction static	15 bar, from box	0,5	[-]
Coefficient of friction dynamic		on request	
Wear factor		on request	

Electrical properties

	Test standard	Value	Unit

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