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# BRAKE LINING M9020

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## Description

M9020 is non-asbestos a heavy duty composite woven from yarns containing brass wire.

It is suitable for light to heavy duty service, applications include:

- Winches
- Cranes
- Hoists

and other heavy duty industrial purposes.

This dense, tough material exhibits exceptional resistance to heat and compression under high loads. M9020 has excellent fade and recovery stability. It is capable of running in oil immersed applications, however the coefficient of friction will decrease.

M9020 is certified by DNV-GL for use in DNV-GL classed marine winches (Cert.no: TAS00001F0).

## Short material description

Woven	x
Moulded	
Oil-Resistant	x
Metallic	x
Asbestos free	x

## Material availability

Sheet	x
Roll	x
Lining	x
Disc	

Width up to 330mm  
Thickness 5,0 to 25,0mm  
Length 10 meters



## Physical / Mechanical and Friction properties

Density	1,6 g/cm <sup>3</sup>
Ultimate shear strength	42 N/mm <sup>2</sup>
Tensile strength	33 N/mm <sup>2</sup>
Rivet holding capacity	110 N/mm <sup>2</sup>
Coefficient of Friction - normal	0,53
Coefficient of Friction - hot	0,53
Coefficient of Friction - @ 200°C	0,56

## Recommended operating range

Pressure	3,5 N/mm <sup>2</sup>
Maximum rubbing speed	21 m/s
Maximum intermittent temp.	280 °C
Maximum continuous temp.	250 °C

## Temperature Sensitivity

