

# FERODO MARINE

**FRD-3806**

## Product Data Sheet

### GENERAL DESCRIPTION

**FRD 3806** is a closely woven, semi-flexible ASBESTOS FREE friction material. It is based on yarn spun from a blend of glass and synthetic fibers together with fine copper wires to enhance its strength and heat dissipation properties. The impregnate has been specially developed to give it good frictional properties combined with a good degree of flexibility. It has a high coefficient of friction and performs well in wet and damp environments which make it particularly suited for marine applications.

This material is not suited to operate in oil-immersed conditions.

### APPLICATIONS

Marine towing winches  
 Marine hoisting drums  
 Industrial drum and band-brakes  
 Industrial clutches  
 Miscellaneous industrial devices

### BONDING

**FRD 3806** may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

### MATING SURFACE

A good quality, fine grained pearlitic cast iron or cold rolled steel with a Brinell hardness of 180. Cast steels are not recommended.

### TECHNICAL DATA

#### Friction

Static cold 5.4 - dynamic dry 5.2

#### Recommended Operating Range

Pressure: Dynamic 70 - 850 kN/m<sup>2</sup>  
 Static 70 - 2410 kN/m<sup>2</sup>  
 Max. Rubbing speed 24m/s  
 Max. Continuous temperature 200 °C  
 Max. intermittent temperature 240 °C  
 Max temperature 300 °C

#### Physical Properties

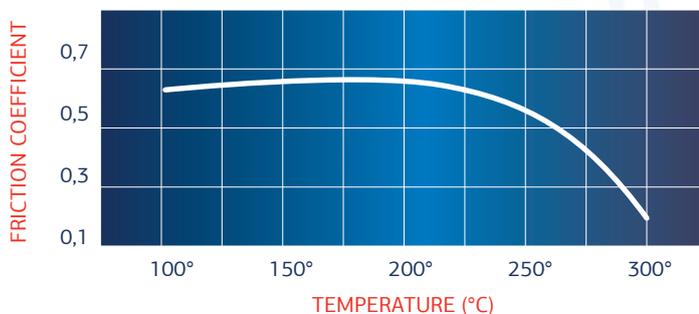
Tensile strength 3270 N/cm<sup>2</sup> (average)  
 Shear strength 1900 N/cm<sup>2</sup> (average)  
 Compression 0.56 mm/200 Psi  
 Transient pressure 200 Psi  
 Continuous pressure 100 Psi

#### Available Roll Sizes

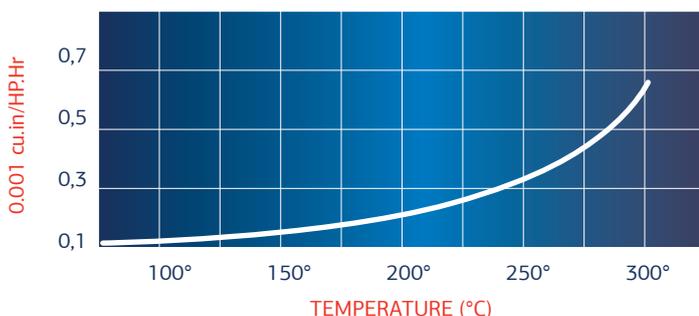
Length: 10 meters  
 Width: 40 mm to 410 mm  
 Thickness range: 3.2 mm to 25,4 mm

\*Linings and special shapes on request.

### FRICITION



### WEAR



The information supplied in this data sheet is believed to be accurate and reliable, and was obtained by scientific and laboratory testing.

CERTIFICATE No: AMPM0000033

INITIAL CERT. DATE: 25 March 2019

CERTIFICATION VALID UNTILL: 24 March 2022