# Friction pad D3920

#### **Description**

D3920 is a semi-cured and semi-flexible material. It has been specially developed to allow customers the ability to undertake some degree of re-radiusing and "cure-out" for themselves.

To help in the re-radiusing operation of D3920 the material should firstly be warmed between 120℃ and 150℃ before gently inducing a change of radius. However, care should be taken whilst carrying out this procedure to ensure that no one area is reradiused more than another, otherwise cracking or possible distortion could occur.

Once the new radius has been achieved, the material should be clamped on both the inner and outer surfaces between metal formers and cured at a temperature of 200°C to 230°C for a minimum of one hour, before being allowed to cool to approx. 100°C and the formers removed.

Some light scorching or discoloration may occur around the edges of the material but this is quite normal and will be found to be merely superficial. D3920 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.

### **Short material description**

Woven
Moulded x
Oil-resistant
Metallic x
Asbestos free x

#### **Material availability**

Sheet x
Roll x
Lining
Disc x

Rolls:

Width (to) 330mm Length 5,0 mtr

Sheets:

To 12,7mm Thickness: 660x330mm From 12,7mm Thickness: 660x530mm

#### **Typical Application**

Industrial drum and band-brakes, Crane and excavator brake and clutch linings. Miscellaneous industrial devices

# Physical properties/ Mechanical properties

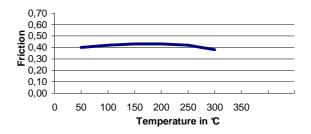
Density:	2,30 g/cm <sup>3</sup>
Hardness:	75 Shore D
Ultimate shear strength - longit.	12 N/mm²
Ultimate compressive strength	93 N/mm <sup>2</sup>
Ultimate tensile strength - longit.	15 N/mm <sup>2</sup>

Coeffic. of Friction - static (cold)	0,38
Coeffic. of Friction - dynamic	0,42

## **Recommended operating range**

Pressure dynamic	70 - 860 kN/m <sup>2</sup>
Pressure static	70 - 2410 kN/m²
Maximum rubbing speed	25 m/s
Maximum intermittent temp.	225 ℃
Maximum continuous temp.	175 ℃
Maximum temperature	300 ℃

#### Friction at high temperatures



All the information on this data sheet are obtained by scientific and laboratory testings. But it is suggested that this material be thorougly tested and is suitability for use be determined before final acceptance.