

KNOTT FRICTION MATERIAL DATA SHEET - 899001

General Description

899001 is a rigid friction material that can be molded in various shapes and sizes. It has a high coefficient of friction with excellent wear. It is typically used in industrial braking applications for off-highway use.

Bonding

899001 may be bonded to most substrates using any of the established adhesives recommended for friction material. It is also possible to mold 899001 to net shape or to a backing plate. To obtain the best results it is recommended to follow the adhesive manufacturer's processing guidelines.

Braking Surface

Good quality fine grained pearlitic cast iron or cold rolled steel with a unidirectional surface finish of Rz 2-5 um. The use of other mating surfaces may impact friction performance and must be tested.


Physical Properties

Specific Gravity (SAE J380)	2.10
Shore Hardness (ASTM 2240)	D87
Ultimate Tensile Strength (ASTM D638)	

Friction Properties

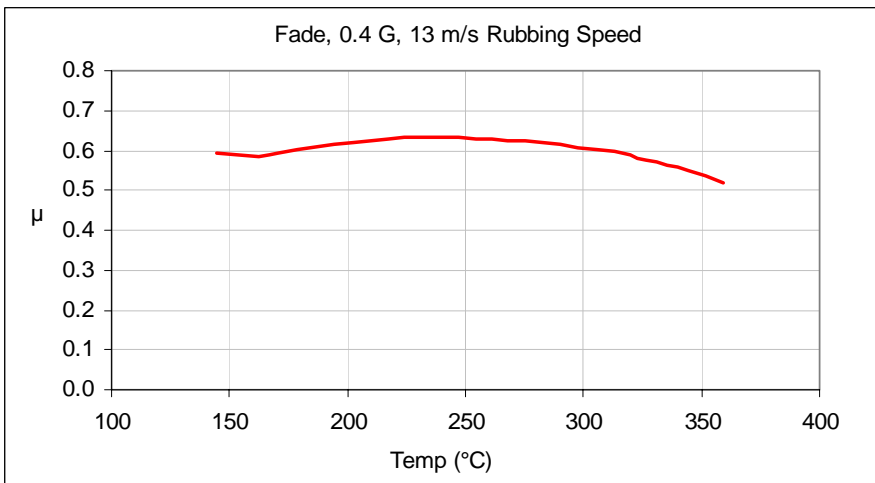
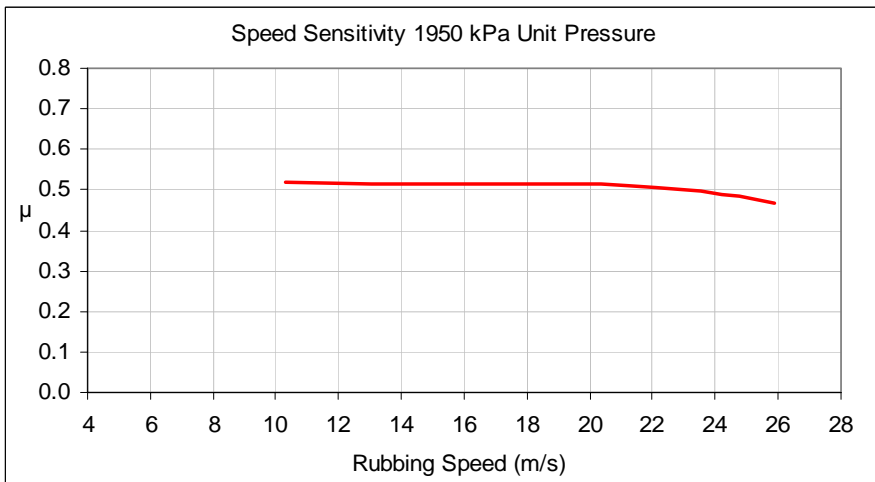
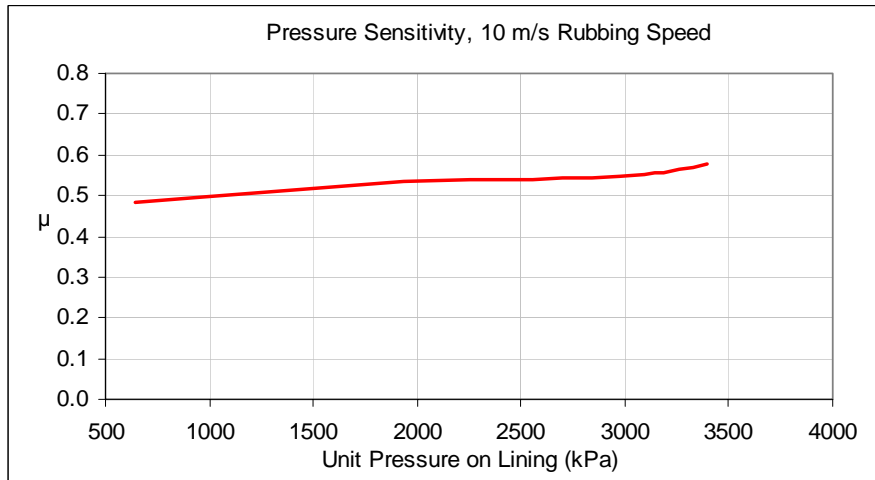
Coefficient of Friction (Normal per KBCES-6)	0.53
Coefficient of Friction (Hot per KBCES-6)	0.58
Static (cold) Coefficient of Friction (KBCES-6)	
Friction Code (SAE J866)	GH
Maximum Continuous Operating Temperature (KBCES-6)	250°C (302°F)
Maximum Continuous Operating Speed (KBCES-6)	20 m/s (66 ft/s)
Maximum Continuous Operating Pressure (KBCES-6)	6.1 MPa (877 PSI)
Wear Rate (KBCES-6)	1.9%

DATA IS BASED ON TESTING UNDER IDEAL CONDITIONS AND/OR THEORETICAL DATA. PERFORMANCE MAY VARY DEPENDING ON THE SPECIFIC APPLICATION. KNOTT BRAKE COMPANY RECOMMENDS TESTING TO CONFIRM PERFORMANCE.

DESCRIPTION 899001 FRICTION MATERIAL DATA SHEET	
DATA SHEET KBCDS-13 899001	REVISION
KNOTT BRAKE COMPANY 	WWW.KNOTTBRAKE.COM
	144 WEST DRIVE LODI, OHIO 44254 PHONE 1 800 566 8887 FAX 330 948 9222
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FRICION GRAPHS

DATA FROM KBCES-6



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