

BREMSKERL 4009

Material description

metal free, non flexible, grey, Resin-bonded, asbestos-free

Availability

pads moulded to customer drawings, rings, sheets, With Slits (for forming to diameter)

Applications

Brakes and clutches for usual mechanical engineering, heavy duty use in brakes and clutches, Monoblockapplication, static friction applications, yaw brakes in windturbines

Technical Data

mean friction coefficient μ (dry) for design purposes	.....	0,20
recommended range of performance:		
p max [N/cm ²]	.....	350
v max [m/s]	.....	15
Max. application temperature [°C]		
continuously	.....	300
intermittently	.....	400
Hardness at 20°C	ISO 2039-1 [N/mm ²]	approx. 250
Tensile strength at 20°C	ISO 527 [MPa]	approx. 30
Impact strength at 20°C	DIN 179-1 [kJ/m ²]	approx. 3
Specific weight	DIN 53479 [g/cm ³]	1,8
Bondability	.....	good

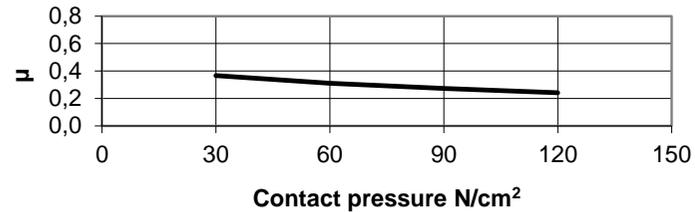
Can be used in oil-immersed applications, dependent on oil type

The maximum pressure / temperature / speed should not occur simultaneously.
This information is advisory and is to our best knowledge.
All the physical properties shown above are mean values.

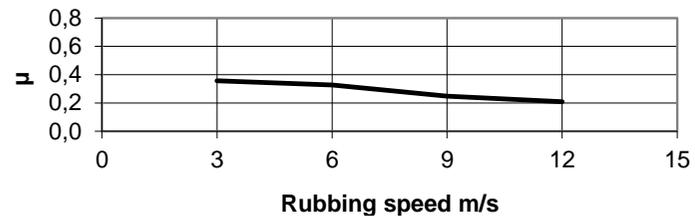
Friction characteristics

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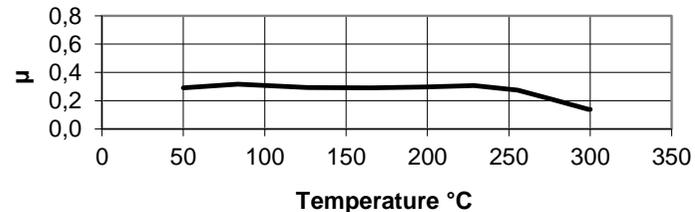
Der Spezialist für Brems- und Kupplungsbeläge
The specialist for brake and clutch linings



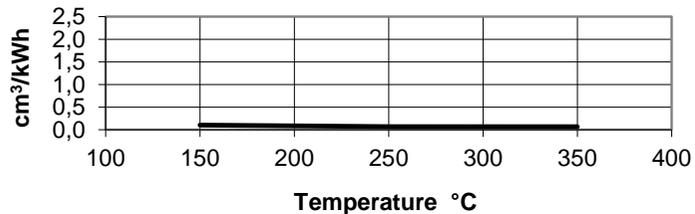
$v = 6$ m/s
 $T = 150^\circ\text{C}$



$p = 60$ N/cm²
 $T = 150^\circ\text{C}$



Continuous braking
 $v = 6$ m/s
 $p = 60$ N/cm²



spec. wear rate
 $v = 15$ m/s
 $p = 50$ N/cm²

Test conditionen: sample size: 2x5 cm², counter material: EN-GJL-250, disc brake

The friction coefficients determined by small-scale brake lining tests may not be compatible to practice and further tests may be required.