

BREMSKERL 4199

Material description

metal free, less flex, grey-black, Rubber-resin-bonded, asbestos-free

Availability

pads moulded to customer drawings, rings, sheets, strips

Applications

Brakes and clutches for usual mechanical engineering, electro-magnetic brakes and clutches

Technical Data

mean friction coefficient μ (dry) for design purposes	.....	0,38
recommended range of performance:		
p max [N/cm ²]	.....	300
v max [m/s]	.....	30
Max. application temperature [°C]		
continuously	.....	300
intermittently	.....	350
Hardness at 20°C	ISO 2039-1 [N/mm ²]	approx. 40
Tensile strength at 20°C	ISO 527 [MPa]	approx. 5
Impact strength at 20°C	DIN 179-1 [kJ/m ²]	approx. 6
Specific weight	DIN 53479 [g/cm ³]	2,1
Bondability	.....	good

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

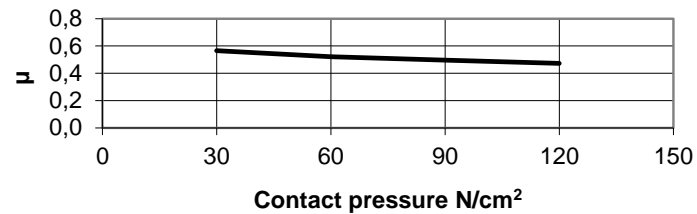
The maximum pressure / temperature / speed should not occur simultaneously.
This information is advisory and is to our best knowledge.
All the physical properties shown above are mean values.

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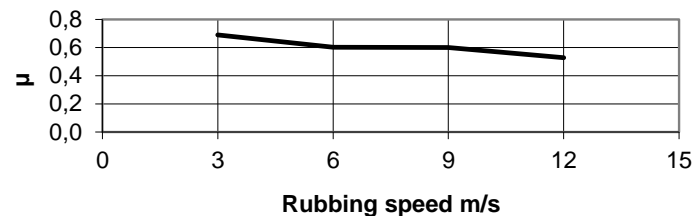
Der Spezialist für Brems- und Kupplungsbeläge
The specialist for brake and clutch linings



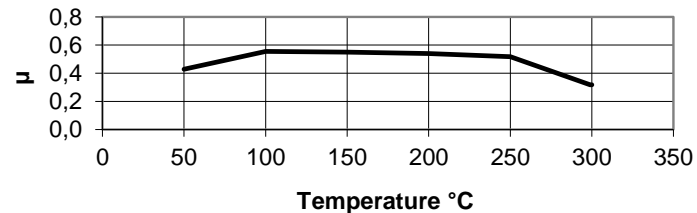
Friction characteristics



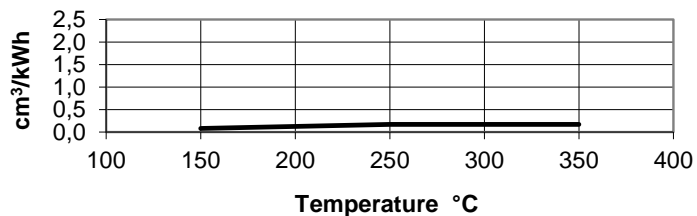
$v = 6$ m/s
 $T = 150$ °C



$p = 60$ N/cm²
 $T = 150$ °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.