

ID Material: 99
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D3920

D3920 is a rigid moulded friction material, light green in colour. D3920 is a non-asbestos basis of short steel filaments in a random dispersion to enhance its heat dissipation properties and strength. It incorporates a blend of carefully selected friction modifiers and a binder which has been specially developed to enhance its properties. Whilst not affected physically by slight oil contamination, this material is not intended to operate in oil.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, 100°C):	0.38	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T ^o Fading:	300	°C

Physical properties

Hardness (DIN53505):	75±5	Shore-D
Specific Gravity (ASTM D792):	2.3±0.5	gr/cm ³
Thermal Conductivity (ASTM E1952):	1.034	W/m ² K

Mechanical properties

Tensile Strength (ASTM D638):	15±5	N/mm ²
Compressive Strength (ISO 844:2014):	90±10	N/mm ²
Ultimate Shear Strenght (ASTM D732):	12±2	N/mm ²

Recommended Working Values

T ^o Max. Continuous Operation:	175	°C
T ^o Max. Intermittent Operation:	225	°C
Max. Rubbing Speed:	25	m/s

Material type : Flexible material

Appearance / Formats



Rolls

Applications

Crane and excavator brakes and clutches - Industrial drum and band brakes - Miscellaneous industrial brakes / clutches

Price Level : € € €

Reach (EC)1907/2023 - RoHS 2015/863/EU : Yes

Others

Recommended Mating Surface:	Perlitic cast iron, hardness HB150-200
Recommended Adhesives:	Thermosetting adhesive
Oil Resistant:	No

