



IMA
MATERIALI DI ATRITO
PER FRENI E FRIZIONI



MI 00 704

Il Materiale MI 00 704 è un materiale molto performante, con un alta percentuale di fibre aramidiche, senza metallo. Può essere considerato un valido sostituto al materiale sinterizzato ed offre numerosi vantaggi. E' resistente alle grandi energie e può lavorare in applicazioni a bagno d'olio oppure a secco. Risulta molto silenzioso e resistente alle grandi pressioni.

MI 00 704 is a high performance, high friction, non-metal composite material containing a high percentage of arimid fibre. It can be considered as an alternative for sintered metal materials and offers many advantages. It will resists high energy inputs and is suitable for both dry and oil-immersed appllication. Is silent in operation and it will resists high pressures.

Dati Tecnici / Technical Data

Friction propieties (according graphics)

Static Friction Coefficient (15bar, from box):	0.40±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.43±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>400	°C

Physical properties

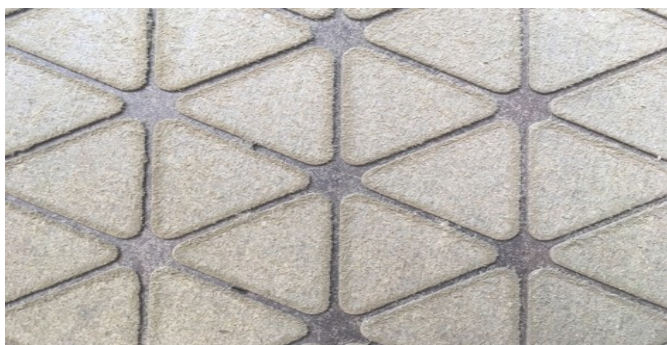
Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.20±0.05	gr/cm3
Thermal Conductivity (ASTM E1952):	0.25±0.01	W/m°K

Mechanical properties

Tensile Strength (ASTM D638):	70±5	N/mm ²
Compressive Strength (ISO 844:2014):	306±5	N/mm ²
Burst Resistant (200 x 137 x 3,5) 200°C:	18200±100	RPM
Poisson Coefficient (ASTM D638):	0.27±0.03	
Young Modulus (ASTM D638):	7260±100	N/mm ²

Recommended Working Values

T° Max. Continuous Operation:	360	°C
T° Max. Intermittent Operation:	400	°C



Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.

Others

Recommended Mating Surface:	Perlitic cast iron, hardness HB150-200
Recommended Adhesives:	Thermosetting adhesive

