



**IMA**  
MATERIALI DI ATTRITO  
PER FRENI E FRIZIONI



# MI 00 704

Il materiale MI 00 704 è un materiale molto performante, con un'alta percentuale di fibre aramidiche, privo di metallo. Può essere considerato un valido sostituto al materiale sinterizzato ed offre numerosi vantaggi. Il materiale 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 non-metal composite material which contains a high percentage of arimid fiber. It can be considered as a valid alternative for sintered metal materials and offers many advantages. The material is suitable for both dry and oil-contaminated conditions. The material is silent in operation and it is resistant to high pressures.*

## Dati Tecnici / Technical Data

### Friction properties (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/cm <sup>3</sup>
Thermal Conductivity (ASTM E1952):	0.25±0.01	W/m <sup>2</sup> K

### Mechanical properties

Tensile Strength (ASTM D638):	70±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	306±5	N/mm <sup>2</sup>
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 <sup>2</sup>

### 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

