

ID Material: G5  
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# AFV

**AFV is a very strong rigid molded friction material.** The basic compounds that have been used are resins for the bonding system, organic and minerals fibres and friction modifiers. AFV is suitable for industrial applications with a medium friction coefficient. It has good resistance to fading and wear. It is a fully cured material and is suitable for bonding and riveting.

## Material data

### Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.42±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T <sup>º</sup> Fading:	>350	°C

### Physical properties

Hardness (DIN53505):	84±5	Shore-D
Specific Gravity (ASTM D792):	1.9±0.05	gr/cm3
Ignition Loss (ASTM D7348):	31±2	%
Acetone Extraction (ASTM D494):	1±0.2	%

### Mechanical properties

Tensile Strength (ASTM D638):	18±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	140±5	N/mm <sup>2</sup>
Shear Modulus (ASTM D2344-00):	2946±100	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.195±0.03	
Young Modulus (ASTM D638):	7042±100	N/mm <sup>2</sup>

### Recommended Working Values

T <sup>º</sup> Max. Continuous Operation:	250	°C
T <sup>º</sup> Max. Intermittent Operation:	350	°C

Material type : Rigid material

### Appearance / Formats



### Applications

Brake pads - Heavy duty static applications - Holding Mechanical Structures  
- Rings segments for machinery - Yaw brakes

Price Level : € € €

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

### Others

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

