

ID Material: 35  
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# FAG/TW

FAG/TW is a green moulded friction material. The basic materials which are used are: phenol resins and a NBR as the bonding system, organic and mineral fibres and friction modifiers. Offers high wear and temperature resistance, It is rigid material with good hardness and mechanical strength. FAG/TW fully cured and is suitable for bonding and riveting.

## Material data

### Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.50±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>350	°C

### Physical properties

Hardness (DIN53505):	90±5	Shore-D
Specific Gravity (ASTM D792):	2.00±0.05	gr/cm <sup>3</sup>
Ignition Loss (ASTM D7348):	40±2	%
Acetone Extraction (ASTM D494):	2±0.2	%
Thermal Conductivity (ASTM E1952):	0.61	W/m <sup>2</sup> K

### Mechanical properties

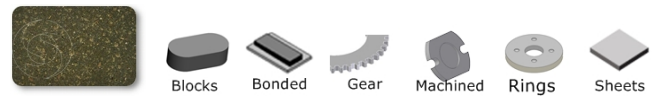
Tensile Strength (ASTM D638):	14±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	170±5	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	7500±200	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	300	°C
T° Max. Intermittent Operation:	400	°C

Material type : Rigid material

### Appearance / Formats



### Applications

Forging machinery - Gear discs for industrial devices - Heavy loaded Winches and Cranes - Heavy-duty industrial machinery - Punch-die press blocks - Rings segments for machinery - Torque limiter

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

