



# FAG/TW

ID Material: 35  
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Revision: 0  
Last updated: 30/07/2021

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/cm3  |
| Ignition Loss (ASTM D7348):        | 40±2      | %       |
| Acetone Extraction (ASTM D494):    | 2±0.2     | %       |
| Thermal Conductivity (ASTM E1952): | 0.61      | W/m°K   |

### Mechanical properties

|                                      |           |       |
|--------------------------------------|-----------|-------|
| Tensile Strength (ASTM D638):        | 14±5      | N/mm² |
| Compressive Strength (ISO 844:2014): | 170±5     | N/mm² |
| Poisson Coefficient (ASTM D638):     | 0.24±0.03 |       |
| Young Modulus (ASTM D638):           | 7500±200  | N/mm² |

### 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                                    |



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.