



## Carbon fibre packing

**Article description:** P653  
**Article forms:** Quadratic  
**Preparations:** Without any additionally preparation  
**Materials:** Carbon continuous filament fibres with PTFE and graphite impregnation

### Mechanical properties:

- Wear-resistant, suitable for harsh operating conditions
- Gentle on the waves
- Low in shrinkage
- Good flexibility and thermal conductivity due to high carbon content
- Volume stability

### Thermal properties:

#### Carbon fibre packing

##### Under oxygen atmosphere:

- Max. continuous temperature 300 °C
- Short-term 400 - 500 °C possible

##### Under exclusion of oxygen:

- Up to 1000 °C possible

#### PTFE impregnation

- Max. continuous temperature 250 °C
- Short-term 280 °C possible
- Above 300 °C, the PTFE begins to decompose slowly

### Chemical properties:

- Very good chemical resistance
- Resistant to abrasive media
- High resistance to acids, alkalis, organic solvents
- Not resistant to strongly oxidising media, fuming nitric acid, molten alkali metals

### Applications:

Centrifugal and piston pumps, mixers, kneaders, autoclaves, slides, paper mills, fittings, refiner, boiler feed pumps. The packing is particularly suitable for the power plant industry, the pulp and paper industry and the chemical industry.

### Application limits:

	p (bar)	v <sub>g</sub> (m/s)	pH	T (°C)
Pumps	30	15	1-14	See thermal properties
Pistons	100	2		
Valves	100	-		

**Dimensions:** 5 - 25 mm edge length quadratic (tolerance +/- 10 %)

*The above information is based on the current state of our knowledge of the product and is made to the best of our knowledge and belief. A warranty claim cannot be derived from this information. All previous issues hereby lose their validity.*