

# FW 522

## Description and applications

FW 522 is based on NBR-bound aramid fibres with a metal inlay made from perforated steel sheet. The sealing material has very good oil and fuel resistance, with good pressure resistance.

FW 522 is used for re-torque-free cylinder-head gaskets in petrol and diesel engines.



## 1. General product information

<b>Colour</b>	grey
<b>Max. temperature</b>	250 °C

## 2. Technical data

### 2.1 General properties

Measured variable	Value	Test standard
<b>Soft material thickness (per side)</b>	0.35 – 0.8 mm	
<b>Sheet thickness</b>	0.20/0.25/0.30 mm	
<b>Thickness</b>	0.9 – 1.8 mm	
<b>Density</b>	1.8 – 2.0 g/cm <sup>3</sup>	DIN 53 105 Tl. 1
<b>Ignition loss</b>	≤ 16 %	DIN 52911
<b>Compressibility</b>	5 – 11 %	ASTM F36 J
<b>Recovery</b>	≥ 35 %	ASTM F36 J
<b>Tensile strength, transverse</b>	≥ 30 N/mm <sup>2</sup>	DIN 52910
<b>Pressure resistance (50 N/mm<sup>2</sup>, 16 h/300 °C)</b>	≥ 38 N/mm <sup>2</sup>	DIN 52913

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## 2.2 Media resistance

Medium	Property	Temperature [°C]	Variation from initial value [%]
			5h
ASTM oil no. 3	Thickness increase (%)	150	≤ 4
	Weight increase (%)	150	≤ 8
ASTM fuel B	Thickness increase (%)	23 ± 2	≤ 6
	Weight increase (%)	23 ± 2	≤ 10
Water/ glycol (1:1)	Thickness increase (%)	Rh	≤ 4
	Weight increase (%)	Rh	≤ 6

## 3. Delivery form

FW 522 can be supplied as a ready-to-install seal based on a drawing or as sheet material.