

Technical Datasheet

FW 522 – Gasket material for non-retorque cylinder-head gaskets



Description

FW 522 is a gasket material based on aramide fibers with NBR binder and perforated metal core. FW 522 combines excellent oil and fuel resistance with high stress relaxation.

Technical data

Soft material thickness (each side)	0.35 – 0.8 mm
Metal thickness	0.20/0.25/0.30 mm
Thickness	0.9 – 1.8 mm
Density DIN 3754	1.8 – 2.0 g/cm ³
Ignition loss DIN 53 105 TL. 1	≤ 16%
Compressibility ASTM F36 J	5 – 11%
Recovery ASTM F36 J	≥ 35%
Tensile strength, cross grain, DIN 52910	≥ 30 N/mm ²
Stress relaxation DIN 52913 (50 N/mm ² , 16h/300°C)	≥ 38 N/mm ²
Media resistance	

ASTM oil no. 3 (5h/150°C)	
Thickness increase	≤ 4%
Weight increase	≤ 8%

ASTM fuel B (5h/23 ± 2°C)	
Thickness increase	≤ 6%
Weight increase	≤ 10%

Water – glycol (1:1, 5h Rf)	
Thickness increase	≤ 4%
Weight increase	≤ 6%

Elring Gasket Material FW 522



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Application

FW 522 is primarily used for non-retorque cylinder-head gaskets for gasoline and diesel engines.

Color	gray
Max. temperature	250°C

Form of supply

FW 522 is available as finished gasket according to drawing or as sheet material.

The information given in this data sheet has been compiled based upon our extensive experience. However, specific characteristics are not guaranteed nor is any liability undertaken, since sealing can only be successful if the particular circumstances of each individual case are taken into account.



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ElringKlinger AG | Spare Parts Business Unit
Max-Eyth-Straße 2 | D-72581 Dettingen/Erms
Fon ++49 (0)71 23/724-622 | Fax ++49 (0)71 23/724-609
elring@elring.de | www.elring.de