



AFM5 AFM7

AFM 5 / AFM 7

Technical Data Sheet 105 (previously TDS 123)

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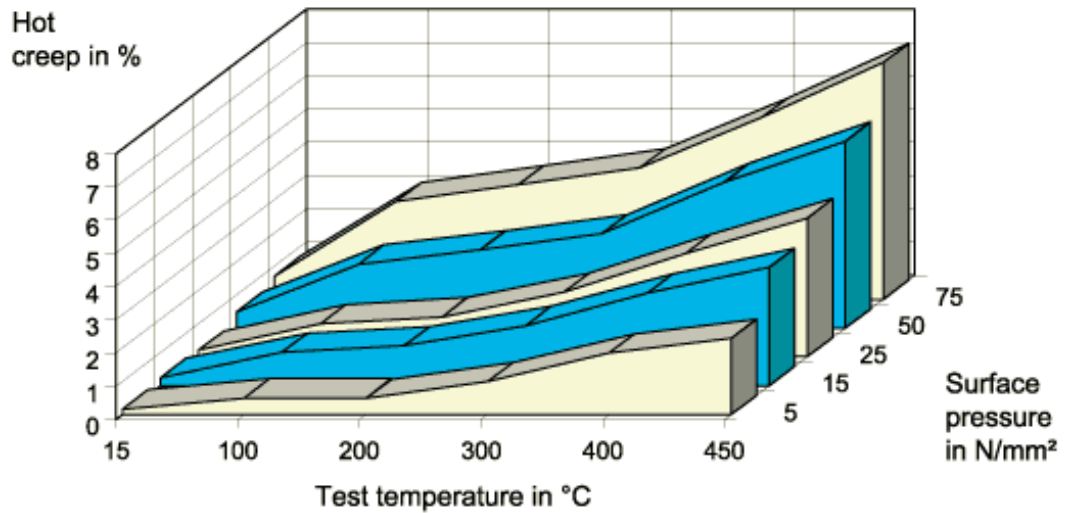
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Material	<p>AFM 5 is an asbestos-free gasket material. The core consists of a tanged sheet of galvanized steel and a steel wire mesh on both sides. A soft mass composed of inorganic fillers and high-grade elastomers is pressed into this metal laminate.</p> <p>AFM 7 differs from AFM 5 in that stainless steel is used for its core. Due to the higher temperature resistance of the tanged stainless steel sheet, AFM 7 can be subjected to higher thermal stress than AFM 5.</p>		
Properties	<p>Both materials are highly resistant to mechanical and thermal stress. Due to their low relaxation rates, gaskets made of AFM 5 or AFM 7 do not usually need to be retorqued.</p>		
Application	<p>For sealed joints under high mechanical and thermal stress, for example in turbochargers and exhaust systems. When combined with a stainless steel inner eyelet or casing, the resistance to temperature (no direct contact of the hot exhaust fumes with the material core) and gas sealability (no transverse diffusion) can be increased even more.</p> <p>The special material properties also permit the material to be used for cylinder head gaskets in certain applications.</p>		
Surfaces	<p>For special applications, individual coatings applied over the full or partial surface are available.</p>		
Technical Data (nominal thickness 1.50 mm)	Weight per surface unit	kg/ m ²	≈ 6.9
	Residual stress acc. to DIN 52 913 16 h, 300°C	N/ mm ²	> 38
	Compressibility and recovery acc. to ASTM F 36, procedure J		
	compressibility	%	3 - 10
	recovery	%	> 45
	Swelling acc. to ASTM F 146		
	in IRM 903 Oil (replaces ASTM Oil No. 3) 5 h, 150°C		
	increase in thickness	%	< 10
	in water / antifreeze (50:50) 5 h, 100°C		
	increase in thickness	%	< 4
	Maximum operating temperature		
	AFM 5	°C	600
	AFM 7	°C	750
	Surface pressure maximum at 300°C	N/ mm ²	100

AFM5 AFM7

Hot creep acc. to RPM 510-3-D

Material: AFM 5, 1.50 mm



The data quoted above are valid for the material "as delivered" without any additional treatment. In view of the countless possible installation and operating conditions, definitive conclusions cannot be drawn for all applications regarding the behaviour in a sealed joint. Therefore, we do not give any warranty for technical data, as they do not represent assured characteristics. If you have any doubt, please contact us and specify the exact operating conditions.

Form of delivery

Gaskets according to a drawing, dimensions given, or other arrangement.

Rolls 500 mm wide, length 100 m
Other forms of delivery by arrangement

Nominal thicknesses and tolerances (mm)

AFM 5:

1.20	+0.10 / - 0.02
1.30	+0.08 / - 0.04
1.50	+0.07 / - 0.08
1.80	+0.07 / - 0.08

AFM 7:

1.30	±0.10
1.50	±0.10