



**AFM 20**

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**Technical Data Sheet 120 (previously TDS 125)**

Edition: 08/2015, supersedes all prior editions.

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**Material** **AFM 20** consists of a tanged and galvanized steel core. An asbestos-free soft material compound containing aramide fibers, inorganic fillers and high-grade binder elastomers is applied to both sides of the core.

**Properties** **AFM 20** exhibits good creep resistance, and conforms well to sealing faces.

**Application** For cylinder head gaskets in medium-range IC engines and other sealed joints subjected to mechanical and thermal stress, e.g. intake and exhaust manifolds, transmission flanges, and high-pressure pumps.

**Surfaces** For special applications, full-surface or partial coatings are available, e.g. a non-stick coating on a PTFE basis (also possible on materials in roll form) or a silicone-based coating that improves micro-sealing (only available as a finished gasket). Screen printing with various elastomers is also possible.

**Approvals** **Germanischer Lloyd (DNV GL)**  
Approval for shipbuilding

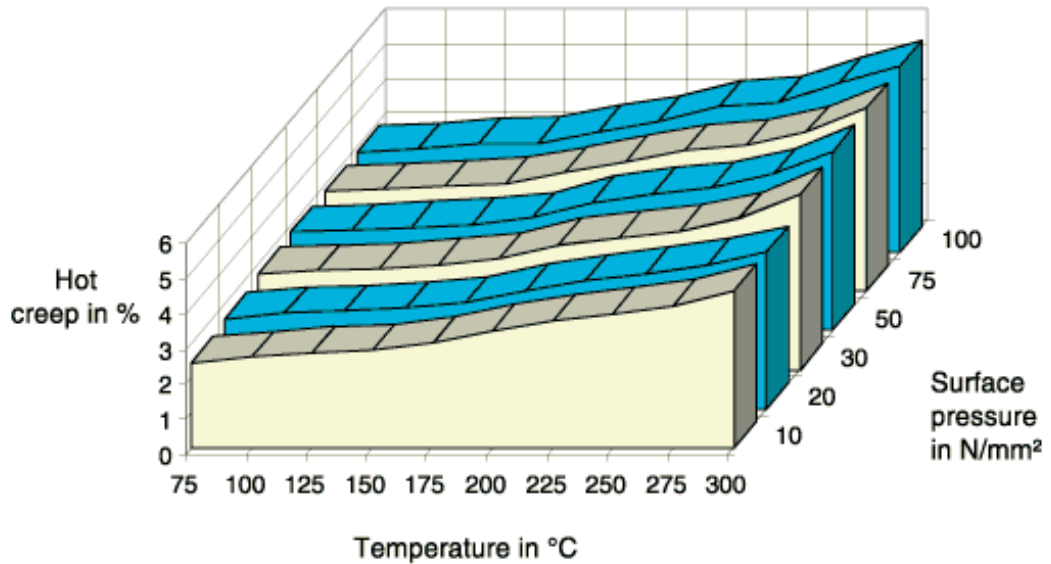
<b>Technical Data</b> (nominal thickness 1.30 mm)	<b>Weight per surface unit</b>	kg/ m <sup>2</sup>	≈ 3.7
	<b>Residual stress</b> acc. to DIN 52 913 16 h, 300 °C	N/ mm <sup>2</sup>	> 37
	<b>Compressibility and recovery</b> acc. to ASTM F 36, procedure J		
	compressibility	%	6 - 14
	recovery	%	> 55
	<b>Swelling</b> acc. to ASTM F 146		
	<b>in IRM 903 Oil</b> (replaces ASTM Oil No. 3) 5 h, 150 °C		
	increase in thickness	%	< 10
	<b>in water / antifreeze</b> (50:50) 5 h, 100 °C		
	increase in thickness	%	< 5
<b>Operating temperature</b> maximum	°C	400	
<b>Surface pressure</b> maximum at 300 °C	N/ mm <sup>2</sup>	100	



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**Hot creep acc. to RPM 510-3-D**

**Material: AFM 20, 1.25 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**

<b>Gaskets</b>	according to a drawing, dimensions supplied, or other arrangement.	
<b>Rolls</b>	500 mm wide Other forms of delivery by arrangement	
<b>Nominal thickness</b>	<b>Tolerance (mm)</b>	<b>Roll length (m)</b>
0.75	+0.07 / -0.05	280
1.00	+0.06 / -0.06	210
1.10	+0.08 / -0.04	190
1.20	+0.10 / -0.02	170
1.30	+0.08 / -0.04	160
1.40	+0.07 / -0.08	150
1.50	+0.07 / -0.08	140
1.80	+0.07 / -0.08	110