AFM 22

Technical Data Sheet 122 (previously TDS 126)
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Please see the latest issue at www.reinz- industrial.com

Material

AFM 22 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 22 exhibits very high mechanical strength together with very high pressure and temperature resistance, yet still conforms well to sealing surfaces.
The material is resistant to oils, fuels, and mixtures of water and antifreeze or corrosion inhibitors.

Application

- for cylinder head gaskets in standard IC engines
- for other sealed joints subjected to high 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

Technical Data
(nominal thickness 1.30 mm)

Weight per surface unit	kg/ m²	≈ 3.8
Residual stress acc. to DIN 52 913 16 h, 300 °C	N/ mm²	> 40
Compressibility and recovery acc. to ASTM F 36, procedure J		
compressibility	%	7 - 13
recovery	%	> 55
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	%	< 7
Operating temperature maximum	°C	400
Surface pressure maximum at 300 °C	N/ mm²	100

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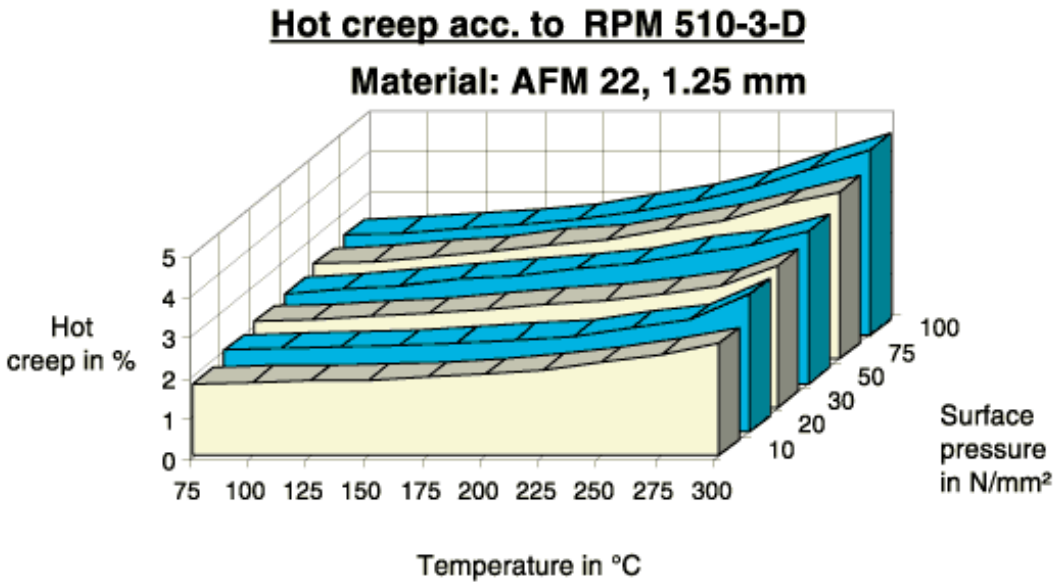

The data quoted above are valid for the material "as delivered" without any additional treatment. In view of the countless possible installation and operating conditions, definitive conclusions cannot be drawn for all applications regarding the behaviour in a sealed joint. Therefore, we do not give any 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 supplied, or other arrangement.

Rolls 500 mm wide
Other forms of delivery by arrangement

Nominal thickness	**Tolerance** (mm)	**Roll length** (m)
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**
1.60	+0.07/ – 0.08	**130**
1.80	+0.07/ – 0.08	**110**