

**AFM 34 2****AFM 34/2****Technical Data Sheet 334/2**

Edition: 02/2022

Please see the latest issue under www.reinz-industrial.com

Material	AFM 34/2 is an asbestos- free gasket material. It contains aramide fibers, inorganic fillers and other high- temperature resistant substances which are bonded with high- quality elastomers with high strength and especially gas- tight under increased pressure and increased temperature.
Properties	AFM 34/2 does not contain any physiologically harmful substances or colour pigments. AFM 34/2 exhibits high tensile strength plus stress and shearing resistance. The material is ideally suited for sealing gases and fluids, e.g. oils, solvents, fuels, Freons, liquid gases, water/ antifreeze mixtures, saline solutions and many other media. It is also suitable for sealing hot water and steam up to approx. 200 °C in stationary applications and with an installation surface pressure of at least 50 N/ mm ² . Please consult us if you have a specific application. Other characteristic properties of the material are excellent temperature resistance, stress resistance under high operating pressure, and ease of handling.
Application	<ul style="list-style-type: none">• in DIN and ANSI flanged pipe connections, apparatuses, pumps and fittings of industrial facilities• in threaded unions with very narrow ring areas, e.g. in gas and hot water boilers, solar installations, heating system radiators and radiator connections• in high- stress thermal- mechanical sealed joints <p>Because of its physiological harmlessness AFM 34/2 is especially suitable for use in drinking water applications.</p>
Surfaces	AFM 34/2 features standard non- stick coating (TD 2) with high friction coefficient on both surfaces that facilitates dismantling. Additional surface treatment is therefore not required in most cases. However, graphite application on one or both sides is recommended in parts that rotate on the gasket during installation, e.g. for threaded unions, radiator plugs, etc. since a low coefficient of friction is required here.



AFM 34 2

Approvals

DIN- DVGW

(acc. to DIN 3535, part 6 FA)

Elastomer guideline (formerly KTW)

For drinking water applications according to elastomer guideline

DVGW Technical Standard W270

Microbiological suitability

WRAS

Certification of gasket materials for use in drinking water (acc. to British Standard BS 6920)

DIN 30653 (formerly VP 401)

Gaskets with higher thermal resistance (HTB)

Grade X

acc. to BS 7531



AFM 34 2

Technical Data
(nominal thickness
2.00 mm)

Density	g/ cm ³	1.7 - 1.9
Ignition loss acc to DIN 52 911	%	< 34
Tensile strength		
acc. to ASTM F 152 accross gain	N/ mm ²	> 18
acc. to DIN 52 910 accross gain	N/ mm ²	> 12
Residual stress acc. to DIN 52 913		
16 h, 300 °C	N/ mm ²	≈ 25
16 h, 175 °C	N/ mm ²	≈ 36
Compressibility and recovery		
acc. to ASTM F 36, procedure J		
compressibility	%	5 - 8
recovery	%	> 55
Sealability against nitrogen		
acc. to DIN 3535, part 6 FA	mg/ (s·m)	≈ 0.02
Swelling acc. to ASTM F 146		
in IRM 903 Oil (replaces ASTM Oil No. 3)		
5 h, 150 °C		
increase in thickness	%	< 7
increase in weight	%	< 7
in ASTM Fuel B		
5 h, room temp.		
increase in thickness	%	< 10
increase in weight	%	< 10
in water / antifreeze (50:50)		
5 h, 100 °C		
increase in thickness	%	< 10
increase in weight	%	< 10
Content of water- soluble chloride	ppm	< 100
Thermal conductivity	W/ (m·K)	≈ 0.7
Specific volume resistivity		
after storage		
at 55% relative humidity, 48 h	Ω·cm	≈ 1 x 10 ¹²
at 120 °C, 1 h	Ω·cm	≈ 2 x 10 ¹³
Short- term peak temperature	°C	400
Maximum continuous temperature	°C	250
with steam up to	°C	200
Maximum operating pressure	bar	150



Max. continuous temperature and max. pressure must not occur simultaneously!



AFM 34 2



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.

Sheets

1500 x 1500 mm (standard size)

Nominal thicknesses and tolerances acc. to DIN 28091-1 (mm)

Dimensional limits within a shipment

0.30	±0.10
0.50	±0.10
0.75	±0.10
1.00	±0.10
1.50	±0.15
2.00	±0.20
3.00	±0.30
4.00	±0.40
5.00	±0.50

Max. thickness variation in a sheet:

0.1 mm for sheet thickness ≤1.00 mm, and 0.2 mm for thickness >1.00 mm