AFM 39/2

Technical Data Sheet 339/2
Edition: 10/2016, supersedes all prior editions.
Please see the latest issue at www.reinz- industrial.com

Material

AFM 39/2 is an asbestos- free gasket material. It consists of aramide fibers and other substances that are resistant to high temperatures and are processed with high- grade elastomers under elevated pressure and temperature.

Properties

The gasket material is physiologically safe and does not contain any colour pigments.
On the one hand, this economical gasket material is conformable and flexible, which ensures adequate sealing even with low surface pressure. On the other hand, it provides adequately high stress resistance coupled with good gas sealability.
In addition, **AFM 39/2** is resistant to solvents, oils, fuels, water, and many other media.

Application

- for sealed joints that are subject to moderate thermal and mechanical stress
- for lightweight components and flanges
- for apparatus, transmissions, pumps, sanitary fittings
- for sealing lightweight components with comparatively low surface pressure, e.g. transmissions, valve covers, oil pans and covers in IC engines.

Thanks to its physiological harmlessness **AFM 39/2** can be used especially also in the drinking water and foodstuff sector.

Surfaces

As standard, both sides of **AFM 39/2** are coated with a non- stick, high-friction layer that greatly facilitates disassembly. In most cases, additional surface treatment is unnecessary.

Approvals

Elastomer guideline (formerly KTW)
For drinking water applications according to elastomer guideline

DVGW Technical Standard W270
Microbiological suitability

Germanischer Lloyd (DNV GL)
Approval for shipbuilding

AFM 39 2

Technical Data (nominal thickness 2.00 mm)				
	Density		g/ cm³	1.75 - 1.95
	Ignition loss acc. to DIN 52 911		%	< 29
	Tensile strength			
	acc. to ASTM F 152	across grain	N/ mm²	> 7
	acc. to DIN 52 910	across grain	N/ mm²	> 5
	Residual stress acc. to DIN 52 913			
	16 h, 175 °C		N/ mm²	≈ 25
	Compressibility and recovery			
	acc. to ASTM F 36, procedure J			
	compressibility		%	9 - 18
	recovery		%	> 55
	Sealability against nitrogen			
	acc. to DIN 3535, part 6 FA		mg/ (s·m)	≈ 0.05
	Swelling acc. to ASTM F 146			
	in IRM 903 Oil (replaces ASTM Oil No. 3)			
	5 h, 150 °C			
	increase in thickness		%	< 25
	increase in weight		%	< 20
	in ASTM Fuel B			
	5 h, room temp.			
	increase in thickness		%	< 25
	increase in weight		%	< 20
	in water/ antifreeze (50:50)			
	5 h, 100 °C			
	increase in thickness		%	< 10
	increase in weight		%	< 10
	Short- term **peak temperature**		°C	300
	Maximum **continuous temperature**		°C	220
	Maximum **operating pressure**		bar	60

Max. continuous temperature and max. pressure must not occur simultaneously, please refer to the table entitled "Max. operating pressures at various temperatures and with various media"

Sealing parameters see corresponding Table

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:

0.50	±0.10
0.75	±0.10
1.00	±0.10
1.50	±0.15
2.00	±0.20
3.00	±0.30

Max. thickness variation in a sheet:
0.1 mm for sheet thickness ≤1.00 mm, and 0.2 mm for thickness >1.00 mm