



AFM 55

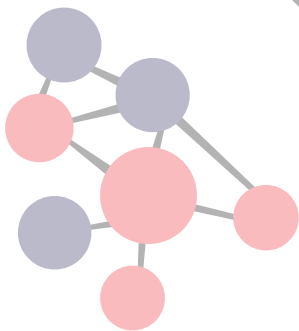
AFM 55

Technical Data Sheet 355

Edition: 08/2015, supersedes all prior editions.

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

Material	AFM 55 is an asbestos-free gasket and insulating material. It consists of aramide fibers and other asbestos substitutes that are resistant to high temperatures and are processed with high-grade elastomers under elevated pressure and temperature.
Properties	AFM 55 exhibits good electrical and thermal insulating properties as well as excellent thermal resistance. In the delivered condition, AFM 55 is soft, pliable and easy to work and process. By means of special temperature treatment or during normal use at elevated temperatures, the material hardens and obtains its maximum mechanical strength.
Application	For sealing fluids and for thermal and/or electrical insulation, e.g. in hot pressing or welding devices or for manufacturing transport rollers that are resistant to high temperatures.
Surfaces	As standard, one side of AFM 55 is coated with a non-stick, high-friction layer that greatly facilitates disassembly.



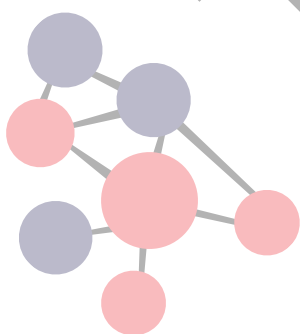


AFM 55

Technical Data

(nominal thickness 2.00 mm)

Density	g/ cm ³	1.8 - 2.0
Ignition loss acc. to DIN 52 911	%	< 34
Tensile strength acc. to ASTM F 152, across grain acc. to DIN 52 910, across grain	N/ mm ² N/ mm ²	> 10 > 8
Residual stress acc. to DIN 52 913 heated material (2h, 200 °C) 16 h, 300 °C 16 h, 175 °C	N/ mm ² N/ mm ²	≈ 20 ≈ 28
Compressibility and recovery acc. to ASTM F 36, procedure J compressibility recovery	% %	4 - 10 > 50
Swelling acc. to ASTM F 146:		
in IRM 903 Oil (replaces ASTM Oil No. 3) 5 h, 150 °C increase in thickness increase in weight	% %	< 10 < 15
in ASTM Fuel B 5 h, room temp. increase in thickness increase in weight	% %	< 10 < 10
in water / antifreeze (50:50) 5 h, 100 °C increase in thickness increase in weight	% %	< 5 < 10
Thermal conductivity of a two- sheet device similar to DIN 52612, at 5 N/ mm ² surface pressure fresh material (48 h, room temp. 60% rel. hum.) heat- treated material (2 h, 200 °C)	W/ m·K W/ m·K	≈ 0.65 ≈ 0.58
Electrical specific resistance acc. to DIN 53482, at 5 N/ mm ² surface pressure fresh material (48 h, room temp., 60% rel. hum.) heat- treated material (2 h, 200 °C)	cm cm	≈ 3.7 x 10 ⁹ ≈ 1.7 x 10 ¹⁴
Dielectric strength acc. to DIN 53481, at constant voltage fresh material (48 h, room temp., 60% rel. hum.) heat- treated material (2 h, 200 °C)	kV/ mm kV/ mm	≈ 8.5 ≈ 10.0
Short- term peak temperature	°C	400
Maximum continuous temperature	°C	300
Maximum operating pressure	bar	100



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



AFM 55



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

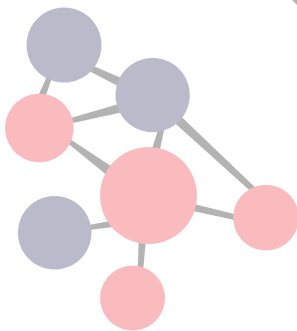
Gaskets or punched parts according to a drawing, dimensions supplied, or other arrangement.

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

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



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