



**AFM 30**

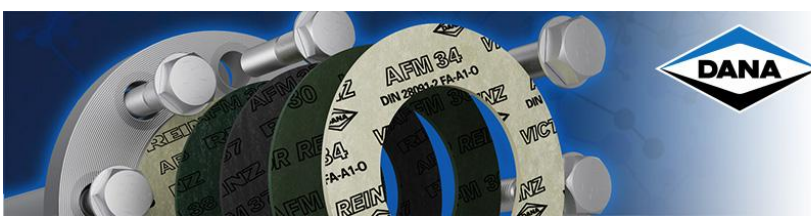
**AFM 30**

**Technical Data Sheet 330**

Edition: 04/2025, supersedes all prior editions.

Please see the latest issue at [www.reinz-industrial.com](http://www.reinz-industrial.com)

<b>Material</b>	<b>AFM 30</b> is an asbestos- free gasket 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.
<b>Properties</b>	<b>AFM 30</b> is conformable and exhibits excellent mechanical/ thermal resistance, as shown by its high value of residual stress. It is ideal for sealing gases and fluids.
<b>Application</b>	<ul style="list-style-type: none"><li>• for compressors, pipelines, apparatus, transmissions, gas meters and IC engines</li><li>• for sealing engine, transmission, hydraulic, and refrigerating oils</li><li>• for sealing fuels, mixtures of water, antifreeze &amp; corrosion inhibitors</li><li>• for sealing Freons, alkaline solutions, and solvents</li></ul>
<b>Surfaces</b>	As standard, both sides of <b>AFM 30</b> are coated with a non- stick, high- friction layer that greatly facilitates disassembly. In most cases, additional surface treatment is unnecessary.
<b>Approvals</b>	<p><b>DIN- DVGW</b> acc. to DIN 3535, part 6 FA</p> <p><b>DIN 30653 (formerly VP 401)</b> Gaskets with higher thermal resistance (HTB)</p> <p><b>BAM</b> German Federal Institute for Materials Research and Testing, flanged joints in oxygen- conducting steel pipes</p> <p><b>Germanischer Lloyd (DNV GL)</b> Approval for shipbuilding</p>



**AFM 30**

**Technical Data**  
(nominal thickness  
2.00 mm)

**Density** g/ cm<sup>3</sup> 1.75 - 1.95

**Ignition loss acc to DIN 52 911** % < 36

**Tensile strength**

acc. to ASTM F 152 accross grain N/ mm<sup>2</sup> > 12

acc. to DIN 52 910 accross grain N/ mm<sup>2</sup> > 9

**Residual stress** acc. to DIN 52 913

16 h, 300 °C N/ mm<sup>2</sup> ≈ 25

16 h, 175 °C N/ mm<sup>2</sup> ≈ 36

**Compressibility and recovery**

acc. to ASTM F 36, procedure J

compressibility % 7 - 15

recovery % > 50

**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 % < 10

increase in weight % < 10

**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 % < 5

increase in weight % < 10

Short- term **peak temperature** °C 400

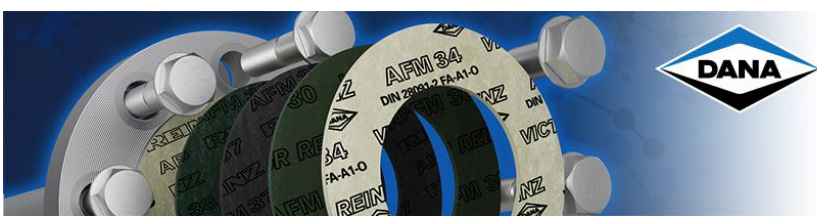
250

Maximum **continuous temperature** °C

Maximum **operating pressure** bar 125



**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".



**AFM 30**

<b>DIN 28091-2:</b>		
<b>Cold creep</b> $\epsilon_{KSW}$	%	7 - 15
<b>Cold recovery</b> $\epsilon_{KRW}$	%	4 - 8
<b>Hot creep during service</b> $\epsilon_{WSW/T}$	%	11 - 14
<b>Hot recovery</b> $\epsilon_{WRW/T}$	%	≈ 0.65
<b>Recovery R</b>	mm	≈ 0.012
<b>Specific leakage rate</b> $\lambda$	mg / (s·m)	< 0.1
<b>Residual surface pressure</b> after 1000 h (in air at 100 °C)	%	> 50

**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

<b>0.30</b>	±0.10
<b>0.50</b>	±0.10
<b>0.75</b>	±0.10
<b>1.00</b>	±0.10
<b>1.50</b>	±0.15
<b>2.00</b>	±0.20
<b>3.00</b>	±0.30
<b>4.00</b>	±0.40
<b>5.00</b>	±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