

Case Study No. 3:

Install and Forget – AFM® 34 Flange Gaskets for Pipe Flanges.




THE CHALLENGE

Permanent media contact with alternating temperature and pressure. For example: liquid and gas-phase chlorine with a temperature range of -34 to +105 °C and pressure as high as 20 bar. This calls for safe and durable sealing for flanges that have either a raised or flat face, spigot- and recess or a tongue-and-groove combination.

THE SOLUTION FROM VICTOR REINZ

The sealing material with a high safety factor – AFM® 34. It is actually more than 1000 times leak-proof than required by the clean-air directive TA-Luft. This material is ideal for sealing not only volatile organic compounds, but a variety of other materials as well. AFM® 34 is highly chemical resistant and exhibits outstanding mechanical strength, making it an excellent solution even when long-term sealing is required. Don't take any chances.

**What kind of challenge do you face?
Give us a call!**

 **+ 49 (0) 731-70 46-777**



VICTOR REINZ®

Technical Data¹⁾ (Nominal thickness 2.00 mm)		AFM[®] 34
Tensile strength (across-grain)	ASTM F 152	> 18 N/mm ²
Residual stress 16 h, 300 °C 16 h, 175 °C	DIN 52913	~ 25 N/mm ² ~ 36 N/mm ²
Compressibility and Recovery Compressibility Recovery	ASTM F 36 J	5-8 % > 55 %
Sealability DIN 3535-6 FA according to TA-Luft (VDI 2440/2200) Q=30 MPa, T=200 °C (2000 h!), $\Delta p_{He}=1$ bar		~ 0.2 cm ³ /min 8.6·10 ⁻⁸ mbar·l/(s·m)
Swelling - in oil IRM 903; 5 h, 150 °C Increase in thickness Increase in weight	ASTM F146	< 7 % < 7 %
- in ASTM Fuel B; 5 h, RT Increase in thickness Increase in weight		< 10 % < 10 %
- in water/antifreeze (50:50); 5 h, 100 °C Increase in thickness Increase in weight		< 10 % < 10 %
Continuous temperature , maximum ²⁾		250 °C
Operating pressure , maximum ²⁾		150 bar

Form of delivery	AFM[®] 34
Gaskets according to drawing, dimensional specifications, or other agreements	
Sheets (standard format)	1500 x 1500 mm
Nominal thickness	0.30 to 5.00 mm
Tolerances	according to DIN8091-1

Approvals

DIN-DVGW, SVGW, ÖVGW
KTW, WRc/WRAS
VP401 (HTB), Fire Safe, BAM
TA-Luft

Note: Refer to data sheet No. 334 or visit our website at www.reinz.com/datasheet for more detailed information.

¹⁾ The preceding technical data applies to the material in its delivery condition without additional treatment or handling.

²⁾ Maximum continuous pressure and maximum pressure may not occur simultaneously.

REINZ-Dichtungs-GmbH
Reinzstraße 3-7
89233 Neu-Ulm
Germany
Phone +49 (0) 731-70 46-777
Fax +49 (0) 731-70 46-399
www.reinz.com



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