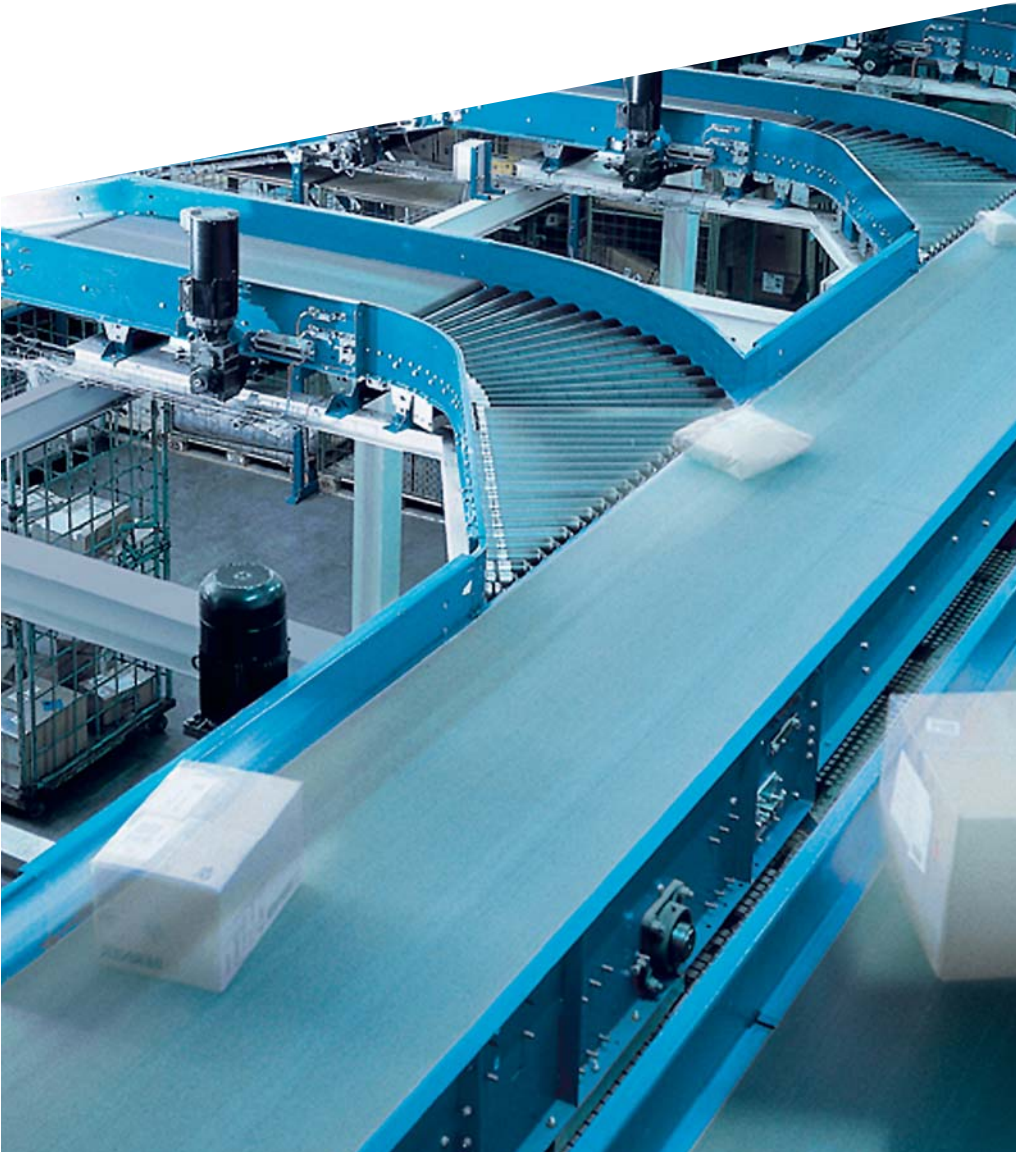


Case Study No. 6:

For the lifetime of the machine – AFM® 38 Cover and Casing Gaskets for Stationary Gearboxes and Gear Motors




THE CHALLENGE

Gaskets for drives on paper machines, conveyor belts, cranes, escalators, and many other types of equipment must stay in service for the entire lifetime of the machine – despite low bolt force, flexurally weak components (diecast aluminum), and milled surfaces with relatively high roughness. At the same time, these gaskets must cope with nonuniform distribution of surface-pressure and partial very low surface pressure as well as they resist all types of gear oil, synthetic oils (polyglycol oils or ester oils), and temperatures as high as 150 °C.

THE SOLUTION FROM VICTOR REINZ

Preferred by experienced engineers and systems operators. AFM® 38 is a soft, compressible, and adaptable aramide-fiber-based gasket material that exhibits high chemical resistance to all gear oils. Even with low surface pressure, AFM® 38 has a high sealing effect and retains good creep stability under load (low relaxation behavior) despite its soft structure. What design-oriented engineers really value: AFM® 38 is silicon-free, so it can be painted.

What kind of challenge do you face?

 +49 (0) 731-70 46-777



VICTOR REINZ®

Technical Data¹⁾ (nominal thickness 2.00 mm)		AFM[®] 38
Tensile strength (across grain)	ASTM F152	> 7 N/mm ²
Residual stress 16 hrs, 175 °C	DIN 52913	~ 20 N/mm ²
Compressibility and recovery	ASTM F36 J	
Compressibility		15-25 %
Recovery		> 60 %
Sealability	DIN 3535-6 FA	< 0,1 cm ³ /min
Swelling	ASTM F146	
- in oil IRM 903; 5 hrs, 150 °C		
Increase in thickness		< 10 %
Increase in weight		< 20 %
- in ASTM fuel B; 5 hrs, RT		
Increase in thickness		< 15 %
Increase in weight		< 15 %
- in water/antifreeze (50:50); 5 hrs, 100 °C		
Increase in thickness		< 5 %
Increase in weight		< 15 %
Continuous temperature maximum ²⁾		200 °C
Operating pressure maximum ²⁾		50 bar

Form of delivery	AFM[®] 34
Gaskets according to drawings, dimensional specifications, or other agreements	
Sheets (standard format)	1500 x 1500 mm
Nominal thickness	0.30 to 5.00 mm
Tolerances	according to DIN 28091-1

Note: Refer to data sheet No. 338 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.

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