

# VICTOR REINZ

## AFM 31



### Material

It is composed of aramide fibres and other asbestos substitutes which are resistant to high temperatures. These substitutes are processed with high-grade elastomers under elevated pressure and temperature.

### Properties

AFM 31 is a highly conformable gasket material featuring high compressibility and flexibility and very good sealability against fluids and gases.

### Application

-for sealed joints on lightweight components where surface pressure is relatively low, e.g. on valve covers, oil pans, covers, in IC engines, compressors, pipelines, apparatus and transmissions.  
-for sealing engine, transmission, hydraulic, and refrigerating oils  
-for sealing fuels, water, mixtures of water and antifreeze & corrosion inhibitors.

### Technical Data

Density	g/cm <sup>3</sup>	1.40 - 1.70
Ignition Loss DIN 52911	%	< 45
Tensile Strength ASTM F 152 (across grain)	N/mm <sup>2</sup>	> 8
Tensile Strength DIN 52910 (across grain)	N/mm <sup>2</sup>	> 6
Residual Stress DIN 52913 (16h / 300 C)	N/mm <sup>2</sup>	
Residual Stress DIN 52913 (16h / 175 C)	N/mm <sup>2</sup>	24
Compressibility ASTM F 36 J	%	14 - 23
Recovery ASTM F 36 J	%	> 50
Sealability against nitrogen DIN 3535/6	mg/(s*m)	< 0.01
Thickness Increase ASTM F 146 (oil IRM 903: 5 h/150 C)	%	< 10
Weight Increase ASTM F 146 (oil IRM 903: 5 h/150 C)	%	< 20
Thickness Increase ASTM F 146 (fuel B: 5 h/23 C)	%	< 15
Weight Increase ASTM F 146 (fuel B: 5 h/23 C)	%	< 20
Thickness Increase ASTM F 146 (water / antifreeze 50:50 5h/100 C)	%	< 5
Weight Increase ASTM F 146 (water / antifreeze 50:50 5h/100 C)	%	< 15
Short Term Peak Temperature	C	
Maximum Continuous Temperature	C	250
Maximum Continuous Pressure	bar	80
Typical values for	mm	2

### Form of Delivery

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

#### Sheets Size x (Standart Size) x Thickness

1500 x 1500 x 0.30 mm  
1500 x 1500 x 0.50 mm  
1500 x 1500 x 0.75 mm  
1500 x 1500 x 1.00 mm  
1500 x 1500 x 1.50 mm  
1500 x 1500 x 2.00 mm