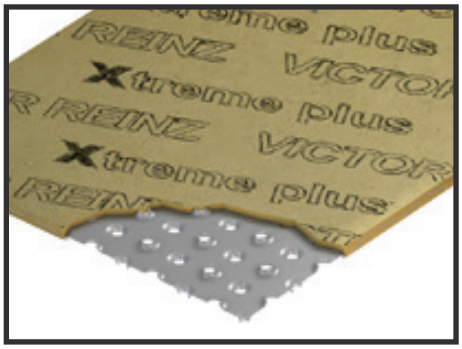
TECHNICAL DATA SHEET

Queensland Gaskets

VICTOR REINZ | XTREME PLUS 1.5mm



Xtreme plus consists of a tanged stainless steel core with a layer of fiber- reinforced mica material applied to both sides. The core is made of a 0.20 mm thick stainless steel sheet (material 1.4828). Apart from expanded mica, the coating contains high- temperature- resistant fibers and a small amount of high- quality elastomers as binding agents.

PROPERTIES

Due to the use of mica and the heat- resistant 1.4828 mm stainless steel core, Xtreme plus withstands high temperatures up to 950 °C.

This combination gives Xtreme plus an excellent sealing potential over the full temperature range. Its high compressibility and elasticity gives it good adaptability, allows it to compensate optimally for component distortions (macro- adaptation), and it also displays constant material behaviour under alternating operating conditions. The tanged steel core lends the material a high resistance to pressure, i.e. low setting tendency.

Xtreme plus is resistant to media such as oils, fuels, exhaust gases, antifreeze, and many others.

APPROVALS

Germanischer Lloyd Approval for shipbuilding

NOTE

For extreme mechanical loads and sealing requirements, we recommend the use of a stainless steel inner bead. In addition to increased internal pressure loading capability, cross- sectional sealing, and blow- out safety, it also provides improved resistance to chemicals.

APPLICATIONS

- As a material for the exhaust system in any IC engine (e.g. truck engines, marine diesel engines, gas engines) for fitting between the cylinder head and manifold, and in the downstream flanged joints of exhaust systems, for turbocharger seals or EGR (exhaust gas recycling) gaskets, especially for the purpose of complying with stringent emission limits.
- It may also be used for sealed joints on burners in heating systems, high- temperature heat exchangers, gas turbines, and other applications

Contact us to discuss requirements and place your order 07 3277 3922

All information and data quoted has been provided by our suppliers and is based upon years of experience in the production and operation of sealing elements. This data may not be used to support any warranty claims. With its publication this latest edition supersedes all previous issues and is subject to change without further notice.

TECHNICAL DATA

Core		
Stainless steel sheet		1.4828
Sheet thickness	mm	0.20
Ignition loss of the soft material; 1 h, 950 °C	%	< 10
Tensile strength		
acc. to DIN 52 910 / ASTM F152		
across grain	N/ mm²	> 50
with grain	N/ mm²	> 50
Stress resistance		
acc. to DIN 52 913; 16 hours, 300 °C		
Nominal thickness 1.2 mm	N/ mm²	≈ 42
Nominal thickness 1.6 mm	N/ mm²	≈ 38
Compressibility and recovery		
according to ASTM F 36, procedure J		
compressibility	%	5 - 15
recovery	%	> 40
Sealability against nitrogen		
acc. to DIN 3535, part 6 at 50 N/ mm²	mg/ (s·m)	≈ 0,5
Swelling according to ASTM F 146:		
in IRM 903 Oil (replaces ASTM Oil No. 3)		
5 h, 150 °C		
increase in thickness	%	< 5
increase in weight	%	< 15
in ASTM Fuel B		
5 h, room temp.		
increase in thickness	%	< 5
increase in weight	%	< 10
in water/ antifreeze (50:50)		
5 h, 100 °C		
increase in thickness	%	< 20
increase in weight	%	< 20
Thermal conductivity	W/ (m·K)	≈ 0.6
Maximum **continuous temperature**	°C	950

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.

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FORM OF DELIVERY

Gaskets according to a drawing, dimensions supplied, or othe arrangement.

Rolls 500 mm wide
Additional delivery forms as agreed.

Nominal thicknesses and tolerances (mm)

1.20	±0.10
1.60	±0.10

Length of roll (m)
170 (thickness 1.2 mm)
130 (thickness 1.6 mm)

Inner metal bead
For critical applications, an inner metal bead is recommended.

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