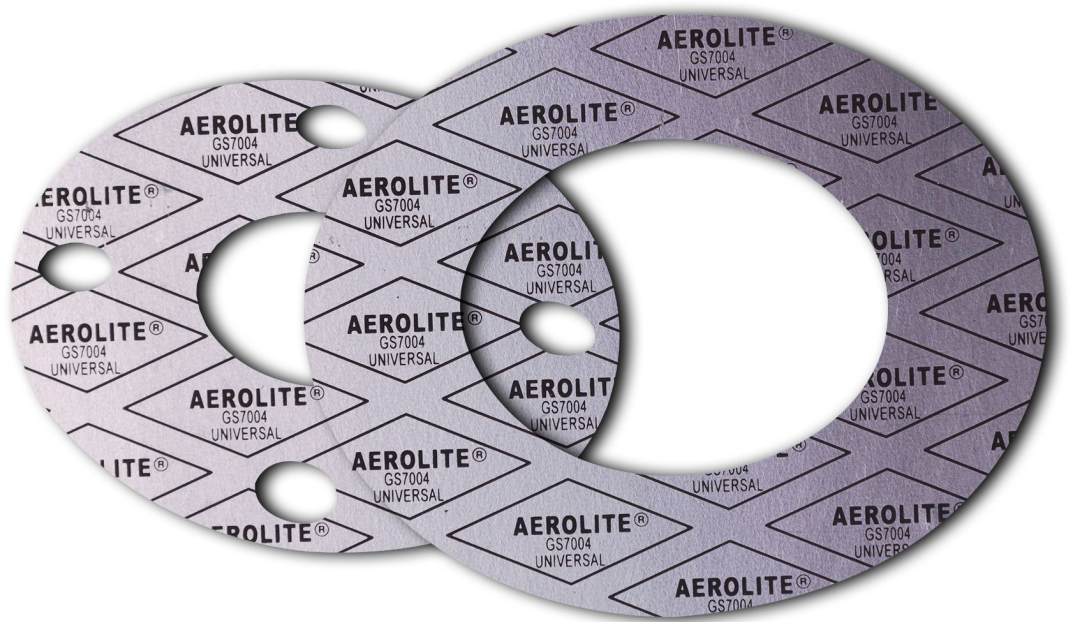


# Aerolite<sup>®</sup> GS7004

**Graphite Laminate Sheet with Tanged SS316L Foil Insert**

Certified Fire Safe According to API 6FB!



**TBJ-UTEX INDUSTRIES (M) SDN BHD**

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MS ISO/IEC 17021:2011  
QS26122016 CB 16



Certificate Number : FM 646287  
ISO 9001 : 2015

- Made of pure exfoliated layers of graphite, which are mechanically bond to a 0.05mm thick, smooth, stainless steel insert.
- This gasket material is suitable for universal use especially in combination with weak flanges (glass) and for sealing of liquid level gauges.
- It is chemically resistant against most media, have excellent thermal conductivity, can be stored indefinitely.

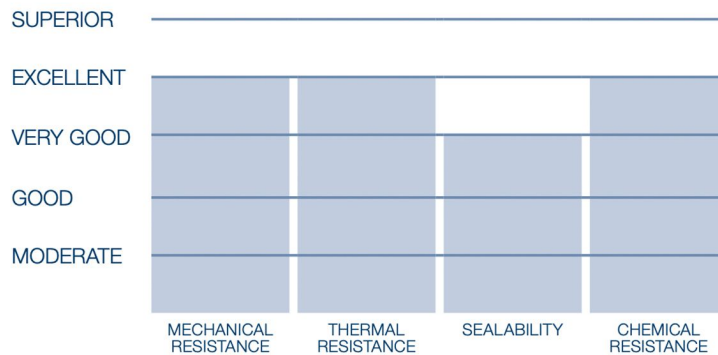
● **Key features:**

- Excellent chemical resistance.
- Excellent high temperature resistance.
- Highly compressible and compactible.

● **Benefits:**

- Provides excellent adaptability to any sealing surfaces.
- Seal irregular flanges.
- Low gas permeability.
- Low electrical resistance.

● **Properties:**



● **Dimensions of the standard sheets:**

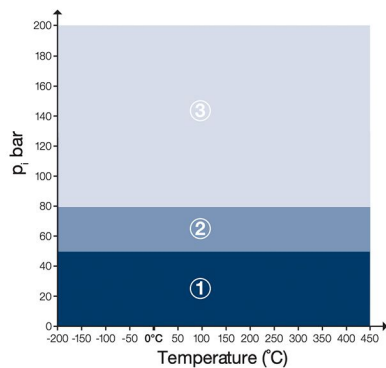
<b>Standard Thickness</b>	1.0mm, 1.5 mm, 2.0 mm, 3.0 mm, 4.0mm, 5.0mm
<b>Standard Roll Size</b>	1000 x 1000 mm, 1000 x 2000 mm
<b>Tolerances</b>	Thickness ± 5% Length ± 5 mm, width ± 5 mm

**Other thicknesses, sizes and inserts on request.**

● **Technical Data** - Typical values for a thickness of 2.0 mm

	Test Method	Unit	Specified Value
Density of the graphite layer	DIN 28090-2	g/cm <sup>3</sup>	1.0
Purity of graphite <sub>1</sub>	DIN 51903	%	≥ 99
Metallic reinforcement	Tanged metal Thickness	mm	AISI 316 (L) 0.05
Compressibility	ASTM F36 J	%	35 - 50
Recovery	ASTM F36 J	%	10 - 15
Stress relaxation	DIN 52913	MPa	≥ 46
Aerolite cold/hot compression 50 MPa	Thickness decrease at 23°C Thickness decrease at 300°C	% %	40 - 50 1 - 4
Specific leakrate λ	DIN 28090-2	mg/sxm	< 0.10
Chloride content	ASTM F1277	ppm	≤ 40
Fluorides content		ppm	≤ 30
Sulfur content	ASTM C 816	ppm	≤ 1000
Carbon content	JB/T 9141.6	%	≥ 98
Ash content	ASTM C561	%	≤ 1.0

● **pT diagram for thickness 2.0 mm:**



- 1 In area one, the gasket material is suitable using common installation practices subject to chemical compatibility.
- 2 In area two, appropriate measures are necessary for installation of the gasket to ensure maximum performance.
- 3 In area three, do not install the gasket without a technical evaluation.

**Always refer to the chemical resistance of the gasket to the media.**

*All information/applications contained in this publication are to the best of our product knowledge. Since condition of uses is beyond our control, users must satisfy themselves that products are suitable for the intended processes and uses. Failure of select the proper sealing products could result in property damage and/or serious personal injury. We reserve the right to change product information without notice.*