

TYPE EXAMINATION CERTIFICATE

This is to certify:**That the Gaskets and Sealings**

with type designation(s)

FLAT GASKETS, Type TESNIT BA-GL + TESNIT BA-GL3000

Issued to

Donit Tesnit, d.o.o.
Medvode, Slovenia

is found to comply with

DIN 52913**DIN 28090****DIN 3535-6****ASTM F152****ASTM F36****Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Temperature range:****Max. working press.:** see certificate and manufacturer's instructions**Design:****Sizes:**Issued at **Hamburg** on **2018-11-15**This Certificate is valid until **2023-11-14**.DNV GL local station: **Koper**Approval Engineer: **Guido Friederich**for **DNV GL**

Digitally Signed By: Drews, Olaf

Location: DNV GL SE Hamburg, Germany

Signing Date: 2018-11-14

Olaf Drews
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Examination Certificate and not to the approval of equipment/systems installed.



Product description

Flat gasket material consisting of glass and aramid fibers, inorganic fillers and NBR binder.

TESNIT BA-GL and BA-GL3000

Technical data	Standard	BA-GL and BA-GL3000	Unit
Thickness range		0,5 up to 3,0	mm
Colour		Greenish-blue	
Density	DIN 28090-2	1,8	g/cm ³
Compressibility	ASTM F36J	7	%
Recovery	ASTM F36J	min 45	%
Tensile strength	ASTM F152	11	N/mm ²
Stress resistance	DIN 52913 at 175°C	38	N/mm ²
Stress resistance	DIN 52913 at 300°C	33	N/mm ²
Specific leak rate	DIN 3535-6	0,03	mg/(s·m)

Note ¹ :

Application

The above listed gasket material sheet type may be used under consideration of the mechanical and technical characteristics as well as physical and chemical properties for the following applications:

- Ship's piping systems, pressurized items and machinery containing e.g. the following fluids: non flammable gases, oil, fuel oil, water.

¹ The selection of the gaskets for the corresponding application and appropriate installation has to be in accordance with the instructions of the manufacturer.

Limitation / Exclusions

- Pipe lines for LNG and flammable gas systems, cryogenic fluids, cargo lines on chemical and gas tankers carrying flammable and/or noxious media, propylene oxide and mixtures of ethylene and propylene oxide.

Type Examination documentation

Donit Tesnit laboratory protocol for testing the material BA-GL, dated 2013-07-31
Donit Tesnit laboratory protocol for testing the material BA-GL3000, dated 2013-08-01
Manufacturer's confirmation / declaration for asbestos-free content, doc. no. 05-2014
CTI Test Report No. NLSH 130 70 214 78 601, dated 2013-07-10, for asbestos-free content acc. to IMO Res. MEPC 197(62)
DVGW type examination certificate DG-5126BO0201, dated 2018-06-19
DIN DVGW type examination certificate NG-5123BO0109, dated 2018-04-18
TZW Karlsruhe Prüfstelle Wasser – Prüfzeugnis KA 0294/17, dated 2017-10-20 and
TZW Karlsruhe Prüfstelle Wasser – Prüfzeugnis KA 0104/18, dated 2018-03-27
Specification TESNIT BA-GL
Specification TESNIT BA-GL3000
ESG Certificate for Identification of asbestos fibres – Analysis Report No.B53867, dated 2011-06-10
ISO 9001 2015; ISO 14001 2015: - Cert. Reg.No. 12 100/104 7202, TMS/TÜV Süd
DNV GL Type Approval Assessment Report, dated 2018-08-22

Marking of product

The flat gasket shall be clearly marked with the following minimum signs:

- Manufacturer's name / label
- Gasket sheet material non asbestos
- Product type

Certificate Retention Survey

A condition for retention of the Type Approval Certificate in its validity period is that periodical assessments are successfully carried out.

The objective of the periodical assessment is to verify that the conditions for the type approval have not been altered.

- The main scope of the periodical assessment will normally include:
- Verification of the TA applicant's production and quality system w.r.t ensuring continued consistent production of the type approved products at the TA applicant's own premises and at other companies that are given the responsibility for manufacturing of the products.
- Review of the TA documentation and that this is still used as a basis for the production
- Review of possible changes to the design, the material and the performance of the product
- Verification of the product marking

END OF CERTIFICATE

