DNV·GL

Certificate No:
TAP000015U

TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Gaskets and Sealings

with type designation(s)
NON-ASBESTOS OIL RESISTANT KEVLAR FIBER TWARON RUBBER GASKETS

Issued to
Yangzhong Binyang Sealing and Special Gasket Co., Ltd.
Yangzhong, 100, China

is found to comply with
DNV GL class programme DNVGL-CP-0434 – Type approval – Uni- and multi-axial multi-ply fabrics made of carbon fibres
DNV GL class programme DNVGL-CP-0467 – Type approval – Uni- and multi-axial multi-ply fabrics made of glass fibres
GB/T 22209-2008 – Marine no-asbestos fiber reinforced rubber gaskets

Application :

Temperature range: **see manufacturer's instructions**
Max. working press.: **see manufacturer's instructions**
Design:
Sizes:

Issued at **Hamburg** on **2018-06-27**
This Certificate is valid until **2023-06-26**.
DNV GL local station: **Jiangyin**

Approval Engineer: **Guido Friederich**

for **DNV GL**

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.

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Product description

The flat gasket material KQG-001 is a special performance biaxially orientated PTFE sheet material suitable for standard flanges and for low bolt loaded irregular flanges.
It is suitable for sealing all chemicals across the whole pH range with the exception of molten alkali metals.

KQG-001

Technical data		**Unit**
Binder	NBR	
Colour	Blue	
Tensile Strength (Across Grain)	≥ 6	MPa
Compressibility	9 - 16	%)
Recovery	≥ 50	%)
Density:	1,8 ± 0,2	g/cm3
Oil resistance	≤ 0,9	%
Oil permeability (no leakage)	30	min
Wight loss	≤ 32	%

Technical Standard: GB / T 17727-1999 – Marine flange for non-asbestos gaskets.

Application/Limitation

The above listed fiber twaron rubber gasket 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.
- Maximum allowable working pressure and temperature according to the specification of the manufacturer.
- The selection of the gaskets for the corresponding application and appropriate installation has to be in accordance with the instructions of the manufacturer.

Limitations / 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 / propylene oxide.
- Steam lines

Type Examination documentation

Marking of product

The fiber twaron rubber gasket material shall be clearly marked with the following minimum signs:

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

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