



This is to certify that the Quality Management System of

Kaiping City Benling Gasket Packing Of Engine Co., Ltd.

Building 1, No. 172, Henan Road, Chikan Town, Kaiping, Jiangmen City, Guangdong Province, 529367, China.

applicable to

The manufacture of non-metallic sealing gaskets (non-asbestos materials)

has been assessed and registered by

NQA, Warwick House, Houghton Hall Park, Houghton Regis, Dunstable LU5 5ZX, Bedfordshire, England

against the provisions of

IATF 16949 : 2016

(Clause 8.3 product design of IATF 16949 : 2016 is justifiably excluded)

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA

Managing Director

NQA Certificate No:	T 5013
IATF Certificate No:	0345174
Date:	05 December 2018
Valid Until:	04 December 2021
Version:	1



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TYPE EXAMINATION CERTIFICATE

This is to certify:

That the Gaskets and Sealings

with type designation(s)
KQG-002

Issued to

Kaiping Benling Gasket Packing of Engine Co., Ltd.
Kaiping City 190, China

is found to comply with
GB/T 22209-2008 – Marine no-asbestos fiber reinforced rubber gaskets

Application :

see certificate

Temperature range: see manufacturer's instruction

Max. working press.: see manufacturer's instruction

Design:

Sizes:

Issued at **Høvik** on **2017-12-13**

This Certificate is valid until **2022-12-12**.

DNV GL local station: **China South NB**

Approval Engineer: **Guido Friederich**



for **DNV GL**

Digitally Signed By: Drews, Olaf

Location: DNV GL Hamburg, Germany

Signing Date: 18.12.2017

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

The flat gasket material KQG-001 is a special non-asbestos fiber reinforced rubber gasket.

KQG-002

Technical data

		Unit
Binder	NBR	
Colour	Yellow, blue, green	
Tensile strength	≥ 9	MPa
Compressibility	$12 \pm 5\%$	%
Recovery	≥ 40	%
Density:	$1,8 \pm 0,2$	g/cm ³
Gas permeability	0,38	ml/min
Residual stress	≥ 20	MPa
Thickness	0,5 up to 3,0	mm
Dimension	1270 x 1270 / 1500 x 1500	mm

Application/Limitation

The above listed fiber reinforced 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

- Manufacturer's product specification
- Test report TS7610011, GZ1105055315/CHEM
- ISO 9001: 2008 Certificate
- Manufacturer's Assessment Report (Audit), dated: 2017-10-19

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

Job Id: **262.1-026964-1**
Certificate No: **TAP000016N**

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