



KOMO® Product certificate K77131/08



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Valid until Indefinite Dated 2023-06-15
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Vulcanized rubber products for cold and hot non-drinking water applications

Gumotiv SPK

STATEMENT BY KIWA

This product certificate is based on Guideline/BRL 2013 "Vulcanized rubber products for cold and hot non-drinking water applications" dated 12 October 2016 inclusive amendment sheet dated 10 October 2018, issued according to the Kiwa-Regulation for Certification.

The quality system and the product characteristics of this product are checked periodically. Based on this, **Kiwa declares that** there is legitimate confidence that:

Upon delivery, the product supplied by the certificate holder meets the requirements:

- Of the technical specifications laid down in this product certificate,
- The product requirements laid down in the Guideline/BRL.

Provided the product is accompanied by the KOMO® quality mark in the manner set out in this product certificate.

Ron Scheepers
Kiwa

*This product certificate is also included on the KOMO foundation websites: www.komo.nl and www.komo-online.nl.
Users of this product certificate is advised to check whether it is still valid. For this purpose consult the website of Kiwa: www.kiwa.nl.*

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Assessed is:
• Quality system
• Product
Periodic control

Vulcanized rubber products for cold and hot non-drinking water applications

TECHNICAL SPECIFICATION

Vulcanized rubber products for cold and hot non-drinking water applications

Product characteristics

The products as specified in the table below fulfil the requirements of BRL-2013 for the mentioned class(es).

Specification

Rubber Compound	Nominal Hardness [IRHD]	Ozone class ¹	Field of application class ²	Cross Section [mm]	Nominal Dimensions [mm]	Product
EPDM	50	I	I – WCL	8,4 – 29,6	315 – 400	Pragma OD
				9 – 11,5	160	Kugeldichtung DN160
EPDM	60	I	I – WCL	3,8 – 4,3	160 – 200	O-ring
				11,3 – 22,0	160 – 400	Gasket “L”
SBR	60	II	I – WCL	11,3 – 22,0	160 – 400	Gasket “L”
				4,9 – 33,7	32 – 630	System BL
NBR	60	II	I – WG	6,9 – 33,7	40-630	System BL öl

- 1 Ozone resistance class according to BRL-2013:
- I For products with a high risk of attack by ozone, for instance in case of separately supplied products without sufficient packaging or in case of connections with preinstalled rubbers under strain;
 - II For products for which a normal resistance to ozone is required;
 - III For rubbers which are never (partly) exposed to the open air when they are in tension. Transport shall always take place in sealed packages.
- 2 Field of application class according to BRL 2013 class:
- I Cold water supply at temperatures continuously up to 45 °C and intermittently up to 95 °C;
 - II Hot water supply at temperatures intermittently up to 110 °C, or water supply up to 110 °C in serviceable piping systems;
 - III Hot water circulation systems based on the classification class 2 in ISO 10508;
 - IV District heating, secondary systems with hot water circulation between 75 °C and 95 °C.
- Field of application class according to EN 681-1:
- WC As in BRL-2013 class I;
 - WD As in BRL-2013 class II;
 - WF As in BRL-2013 class II, for IIR-copolymer;
 - WG As in BRL-2013 class I, oil resistance.

Details of the products are included in the drawing list, which forms a part of the IQC schedule. Kiwa authenticates this list. A copy of this list can be obtained from the producer.

Marking

The following marks and indications must be provided on each product[#] and product packaging in a clear, legible and indelible way:

- the name of manufacturer or the deposited trade mark;
- KOMO (or KOMO® word mark) with certificate number;
- the nominal dimension or dimensions;
- the nominal hardness;
- the year of manufacturing and preferably the quarter;
- type of rubber applied by means of the letter codes of the nomenclature according to ISO 1629;
- the application class (I, II, III or IV);
- on products from blends, the letter B (“blend”) shall be placed behind the first letter code;
- the ozone resistance class (“Ozone I, II or III”). For rubber rings made from two compounds the compound with the lowest class is valid.

[#] If the dimensions of the products are such that the indications applied to them may impair the product, the products may be marked per package in consultation with the manufacturer, the buyer and Kiwa. Products produced by cutting or die cutting out of sheets may be marked per package.

BRL number and certificate number; optional



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RECOMMENDATIONS FOR THE CUSTOMER

Check on delivery of the products listed under the "technical specification" whether:

- The product(s) and material(s) ordered are delivered in accordance with the agreement you made.
- The brand and the method of marking is correct
- No defects or damage is visible (for example, resulting from the transportation).

If on the basis of the foregoing you decide to proceed to rejection, please contact

- Gumotiv SPK

And if necessary,

- Kiwa Nederland B.V.

Statements made in this certificate are not to be used instead of CE-marking and/or the required Declaration of Performance (DoP).