



KOMO®
Product certificate
K4195/34



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Valid until Indefinite Dated 2020-04-01
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Vulcanized rubber products for cold and hot non-drinking water applications
M.O.L. Gummiverarbeitung GmbH & Co. KG

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 both in this product certificate and in the Guideline/BRL.

Provided the vulcanized rubber products for cold and hot non-drinking water applications are 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

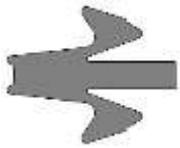
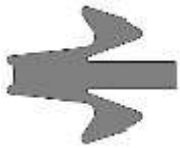

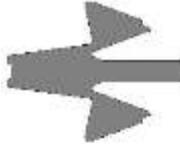










Product characteristics

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














Specification

Rubber Compound: EPDM 45					
Hardness:	45 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	I	Production method:	Extrusion and welding		
	Seal type	Inspection chamber seal / Seal for riser socket and bottom plug		Seal type	Sealing ring for Manhole
	Nominal Dimensions	300 - 400 mm		Nominal Dimensions	630 - 1000 mm
	Cross Section	19,5 – 34 mm		Cross Sections	11 - 35 mm
	Seal type	Teleskop-manschette 545/500		Seal type	Teleskop-manschette DN 535 SN4/SN8
	Nominal Dimensions	630 mm		Nominal Dimensions	630 mm
	Cross Section	4 – 10 mm		Cross Sections	4 - 14 mm
Rubber Compound: EPDM 50					
Hardness:	50 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	I	Production method:	Injection moulding & Extrusion and welding		
	Seal type	Awadukt PP		Seal type	Mabo L-Ring
	Nominal Dimensions	100 - 500 mm		Nominal Dimensions	32 - 400 mm
	Cross Section	8,2 – 32,6 mm		Cross Sections	6 – 26,8 mm
	Seal type	Lippen-Dichtung DV-RØR		Seal type	Lippen-Dichtung System SK
	Nominal Dimensions	160 - 630 mm		Nominal Dimensions	100 - 600 mm
	Cross Section	6,3 – 49,5 mm		Cross Sections	8,5 – 37,9 mm
	Seal type	Wellrohr Dichtung Art. 10151-11000		Seal type	Wellrohr Dichtung Art. 10408
	Nominal Dimensions	150 - 1000 mm		Nominal Dimensions	400 mm
	Cross Section	12 – 87 mm		Cross Sections	26 - 27 mm
	Seal type	Wellrohr Dichtung Art. 71923 Ex.		Seal type	Wellrohr Dichtung Art. 71924 Ex.
	Nominal Dimensions	1200 mm		Nominal Dimensions	1400 mm


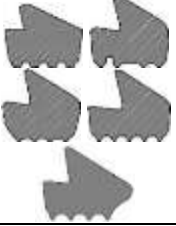



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	Cross Section	8,5 – 40 mm		Cross Section	8,5 – 40 mm
	Seal type	Wellrohr Dichtung Art. 10103		Seal type	Wellrohr Dichtung Art. 10307
	Nominal Dimensions	110 mm		Nominal Dimensions	300 mm
	Cross Section	0,8 – 3,5 mm		Cross Section	2 – 8 mm
	Seal type	Wellrohr Dichtung Art. 10413		Seal type	Dichtung für Gully
	Nominal Dimensions	400 mm		Nominal Dimensions	On customer demand
	Cross Section	1,8 – 11 mm		Cross Section	2 – 10 mm
	Seal type	Teleskopmanschette 590/500		Seal type	Wellrohr Dichtung Art. 10606
	Nominal Dimensions	500 mm		Nominal Dimensions	600
	Cross Section	4 – 9 mm		Cross Section	3 – 26 mm
	Seal type	Betonanschluss Dichtung System BA-M 110-200			
	Nominal Dimensions	110 - 200 mm			
	Cross Section	20 - 50 mm			
Rubber Compound	EPDM 60				
Hardness:	60 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	I	Production method:	Injection moulding		
	Seal type	Lippendichtung BL-ring			
	Nominal Dimensions	32 – 600 mm			
	Cross Section	4,9 – 34 mm			
Rubber Compound:	SBR 40				
Hardness:	40 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	II	Production method:	Injection moulding & Extrusion and welding		
	Seal type	Vortriebsrohrdichtung		Seal type	Lippen Dichtung DD-ring
	Nominal Dimensions	160 - 220 mm		Nominal Dimensions	32 - 200 mm
	Cross Section	31 – 40 mm		Cross Sections	4,6 – 13,1 mm
	Seal type	EI-Ring		Seal type	Manschette für Schallschutz-rohr
	Nominal Dimensions	100 - 600 mm		Nominal Dimensions	50 - 200 mm
	Cross Section	8,5 – 41 mm		Cross Sections	5,5 – 91,6 mm

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	Seal type	Gleitring 13x50		Seal type	Gleitring 16x55
	Nominal Dimensions	300/400 mm		Nominal Dimensions	500 mm
	Cross Section	13,2 – 50 mm		Cross Sections	16,1 – 55 mm
	Seal type	Gleitring 18x50, 20x59, 22x59, 24x59		Seal type	Rollring System MTR Ø13, MTR Ø16, MTR Ø18, MTR Ø20.
	Nominal Dimensions	600/700, 800 900, 1000 mm		Nominal Dimensions	300/400, 500, 600/700, 800 mm
	Cross Section	18 – 59 mm		Cross Sections	13, 16, 18, 20 mm
	Seal type	Keildichtung System MSD für Betonschacht		Seal type	Keildichtung MKR für Betonrohr
	Nominal Dimensions	800/1000, 1200, 1500 mm		Nominal Dimensions	On customer demand
	Cross Section	14 – 44 mm		Cross Sections	14 – 40 mm
Rubber Compound: SBR 50					
Hardness:	50 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	II	Production method:	Extrusion and welding		
	Seal type	Betonrohrdichtung Integra		Seal type	Betonrohrdichtung Integra V
	Nominal Dimensions	300 - 2600 mm		Nominal Dimensions	150 - 2600 mm
	Cross Section	12 – 26 mm		Cross Sections	10 – 26 mm
	Seal type	Betonrohrdichtung Integra VL		Seal type	Rollring System MTR Ø22, MTR Ø24, MTR Ø26.
	Nominal Dimensions	300 - 1500 mm		Nominal Dimensions	900, 1000, 1250/1500 mm
	Cross Section	14 – 22 mm		Cross Sections	22, 24, 26 mm
	Seal type	Betonanschluss-Dichtung System BA-M		Seal type	Integra TX
	Nominal Dimensions	On customer demand		Nominal Dimensions	250 – 1200 mm
	Cross Section	21 – 50 mm		Cross Sections	3 – 18 mm
	Seal type	MRD-V			
	Nominal Dimensions	400, 500, 800 600 mm			
	Cross Section	20 22,5 mm			

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Rubber Compound:		SBR 60			
Hardness:	60 IRHD	Field of application ² :	I – WC	Remarks:	
Ozone Class ¹ :	II	Production method:	Injection moulding		
	Seal type	Lippen-dichtung UNI-ring		Seal type	Lippen-dichtung BL / BLB- ring
	Nominal Dimensions	40 - 500 mm		Nominal Dimensions	25 - 600 mm
	Cross Section	6,8 – 30 mm		Cross Sections	4,9 - 34 mm
	Seal type	Afdichtungs Ring DN110 MK-200-03		Seal type	Afdichtungs Ring U3R DN110-DN160
	Nominal Dimensions	110 mm		Nominal Dimensions	110 - 160 mm
	Cross Section	1 – 3 mm		Cross Sections	1 – 6 mm
	Seal type	Afdichtungs Ring voor Riool-inlaten DN125-DN160		Seal type	
	Nominal Dimensions	125 - 160 mm		Nominal Dimensions	
	Cross Section	1 - 6 mm		Cross Section	

- 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;



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- 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

7 TIPS FOR THE USER

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

- M.O.L. Gummiverarbeitung GmbH & Co. KG

And if necessary,

- Kiwa Nederland B.V.

For the proper storage, transport and processing consult the instructions of the certificate holder.

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

