

**BRL K14022**

Date 2018-01-12

# Evaluation Guideline

for the Kiwa product certificate for  
equipment for conditioning drinking water and/or  
hot tap water



**Trust  
Quality  
Progress**

# Preface

This evaluation guideline has been accepted by the Kiwa Board of Experts Watercycle (CWK), in which all relevant parties in the field of Onderwerp are represented. The Board of Experts also supervises the certification activities and where necessary requires the evaluation guideline to be revised. All references to Board of Experts in this evaluation guideline pertain to the above mentioned Board of Experts.

This evaluation guideline will be used by Kiwa in conjunction with the Kiwa Regulations for Certification.

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The use of this evaluation guideline by third parties, for any purpose whatsoever, is only allowed after a written agreement is made with Kiwa to this end.

## **Validation**

This evaluation guideline has been declared binding by Kiwa on January 12, 2018

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# 1 Introduction

## 1.1 General

This evaluation guideline includes all relevant requirements which are adhered to by Kiwa as the basis for the issue and maintenance of a certificate for products used for equipment for conditioning drinking water and/or hot tap water.

For the performance of its certification work, Kiwa is bound to the requirements as included in NEN-EN-ISO/IEC 17065 "Conformity assessment - Requirements for bodies certifying products, processes and services".

## 1.2 Field of application / scope

The products are intended to be used in drinking water and hot tap water installations with a maximum working pressure of 1 MPa

The products in this BRL may not be used in the context of legionella prevention as described in the Drinkwaterbesluit.

## 1.3 Acceptance of test reports provided by the supplier

If the supplier provides reports from test institutions or laboratories to prove that the products meet the requirements of this evaluation guideline, the supplier shall prove that these reports have been drawn up by an institution that complies with the applicable accreditation standards, namely:

- NEN-EN-ISO/IEC 17020 for inspection bodies;
- NEN-EN-ISO/IEC 17021 for certification bodies certifying systems;
- NEN-EN-ISO/IEC 17024 for certification bodies certifying persons;
- NEN-EN-ISO/IEC 17025 for laboratories;
- NEN-EN-ISO/IEC 17065 for certification bodies certifying products.

### Remark:

This requirement is considered to be fulfilled when a certificate of accreditation can be shown, issued either by the Board of Accreditation (RvA) or by one of the institutions with which an agreement of mutual acceptance has been concluded by the RvA. The accreditation shall refer to the examinations as required in this evaluation guideline. When no certificate of accreditation can be shown, Kiwa shall verify whether the accreditation standard is fulfilled.

## 1.4 Quality declaration

The quality declaration to be issued by Kiwa is described as a Kiwa product certificate.

A model of the certificate to be issued on the basis of this evaluation guideline has been included for information as Annex.

## 2 Terms and definitions

### 2.1 Definitions

In this evaluation guideline, the following terms and definitions apply:

- **Board of Experts:** the Board of Experts Watercycle (CWK).
- **Certification mark:** a protected trademark of which the authorization of the use is granted by Kiwa, to the supplier whose products can be considered to comply on delivery with the applicable requirements and possibly with quality information on the application of the product is added by a specially designed label which is based on the result, as stated in the report issued by Kiwa on the inspection of the prototype
- **Drinking water:** water intended or partly intended for drinking, cooking or food preparation or other domestic purposes, but does not include hot water, and is made available by pipeline to consumers or other customers.
- **Drinking water installation:** an installation direct or in-direct connected to the public drinking water distribution network of a drinking water company (source Dutch drinking water act);
- **Drinking water treatment:** adding or subtracting substances to drinking water and/or hot tap water to change the composition and/or properties of the tap water;
- **Drinking water conditioning device:** device with which the conditioning of the drinking water and/or hot tap water takes place;
- **Evaluation Guideline (BRL):** the agreements made within the Board of Experts on the subject of certification.
- **Hot tap water:** water intended or partly intended for drinking, cooking or food preparation or other domestic purposes, which is heated before it is made available for those applications.
- **Installation:** configuration consisting the pipe work, fittings and appliances;
- **Inspection tests:** tests carried out after the certificate has been granted in order to ascertain whether the certified products continue to meet the requirements recorded in the evaluation guideline.
- **IQC scheme (IQCS):** a description of the quality inspections carried out by the supplier as part of his quality system.
- **Pre-certification tests:** tests in order to ascertain that all the requirements recorded in the evaluation guideline are met.
- **Private Label Certificate:** A certificate that only pertains to products that are also included in the certificate of a supplier that has been certified by Kiwa, the only difference being that the products and product information of the private label holder bear a brand name that belongs to the private label holder.
- **Product certificate:** a document in which Kiwa declares that a product may, on delivery, be deemed to comply with the product specification recorded in the product certificate.
- **Product requirements:** requirements made specific by means of measures or figures, focussing on (identifiable) characteristics of products and containing a limiting value to be achieved, which can be calculated or measured in an unequivocal manner.
- **Supplier:** the party that is responsible for ensuring that the products meet and continue to meet the requirements on which the certification is based.

## **3 Procedure for granting a product certificate**

### **3.1 Pre-certification tests**

The pre-certification tests to be performed are based on the (product) requirements as contained in this evaluation guideline, including the test methods, and comprises the following:

- type testing to determine whether the products comply with the product and/or functional requirements;
- production process assessment;
- assessment of the quality system and the IQC-scheme;
- assessment on the presence and functioning of the remaining procedures.

### **3.2 Granting the product certificate**

After finishing the pre-certification tests, the results are presented to the Decision maker (see 8.2) deciding on granting the certificate. This person evaluates the results and decides whether the certificate can be granted or if additional data and/or tests are necessary.

# 4 Requirements

## 4.1 General

This chapter contains the requirements that equipment for conditioning drinking water and/or hot tap water have to fulfil.

## 4.2 Regulatory requirements

### 4.2.1 *Requirements to avoid deterioration of the quality of drinking water*

The requirements in this chapter are public law requirements.

To prevent harmful effects on the quality of drinking water, the following government imposed provisions apply.

Products and materials which (may) come into contact with drinking water or warm tap water, shall not release substances in quantities which can be harmful to the health of the consumer, or negatively affect the quality of the drinking water.

Therefore, the products or materials shall meet toxicological, microbiological and organoleptic requirements as laid down in the currently applicable "Ministerial Regulation materials and chemicals drinking water and warm tap water supply", (published in the Government Gazette). Consequently, the procedure for obtaining a recognised quality declaration, as specified in the currently effective Regulation, has to be concluded with positive results.

Products and materials with a quality declaration<sup>1</sup>, e.g. issued by a foreign certification institute, are allowed to be used in the Netherlands, provided that the Minister has declared this quality declaration equivalent to the quality declaration as meant in the Regulation.

## 4.3 Private law requirements

### 4.3.1 *Product requirements*

The requirements of the product and assessment methods are specified in the following standards, with the exception of those items which are given in 4.3.2:

<b>Nummer</b>	<b>Titel</b>
<b>NEN-EN 13443-1 + A1</b>	Water conditioning equipment inside buildings – Mechanical filters – Part 1: Particle rating 80µm to 150µm - Requirements for performances, safety and testing
<b>NEN-EN 13443-2 + A1</b>	Water conditioning equipment inside buildings – Mechanical filters – Part 2: Particle rating 1µm less than 80µm – Requirements for performance, safety and testing
<b>NEN-EN 14095</b>	Water conditioning equipment inside buildings – Electrolytic treatment systems with aluminium anodes – Requirements for performance, safety and testing
<b>NEN-EN 14652 + A1</b>	Water conditioning equipment inside buildings – Membrane separation devices – Requirements for performance, safety and testing

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<sup>1</sup> A quality declaration issued by an independent certification institute in another member state of the European Community or another state party to the agreement to the European Economic Area, is equivalent to a recognized quality declaration, to the extent that, to the judgment of the Minister of the first mentioned quality declaration, is fulfilled the at least equivalent requirements as meant in the Regulation materials and chemicals drinking water- and warm tap water supply.



<b>NEN-EN 14743 + A1</b>	Water conditioning equipment inside buildings – Softeners – Requirements for performance, safety and testing
<b>NEN-EN 14812 + A1</b>	Water conditioning equipment inside buildings – Chemical dosing systems – Pre-set dosing systems – Requirements for performance, safety and testing
<b>NEN-EN 14897 + A1</b>	Water conditioning equipment inside buildings – Devices using mercury low-pressure ultraviolet radiators – Requirements for performance, safety and testing
<b>NEN-EN 14898 + A1</b>	Water conditioning equipment inside buildings – Active media filters – Requirements for performance, safety and testing

#### **4.3.2 Additional requirements**

In addition to the requirements listed under 4.3.1, the following applies:

##### **4.3.2.1 Hygienic treatment of products in contact with drinking water**

The supplier must have a procedure in place that protects the products in such way, that the hygiene is ensured during storage and transport.

In addition, the supplier shall inform the customer about the handling of products delivered under the certificate, which come into contact with drinking water and warm tap water, from arriving at the construction site through to the realization and commissioning. The primary reason for providing this the information is to contribute to the awareness of the importance of hygienic work as a 'prevention measure'.

# 5 Marking

## 5.1 General


The products shall have to be marked with following indelible marks and indications:

NEN-EN 13443-1 + A1, article 9.2 en 9.3  
NEN-EN 13443-2 + A1, article 8.2 en 8.3  
NEN-EN 14095,  
NEN-EN 14652 + A1, article 8.2  
NEN-EN 14743 + A1, article 5.1 en 5.2  
NEN-EN 14812 + A1, article 7.1 en 7.2  
NEN-EN 14897 + A1, article 4.6 en appendix E  
NEN-EN 14898 + A1, article 7.2 en 7.3

### 1.1 Certification mark

After concluding a Kiwa certification agreement, the certified products shall, beside the marks indicated in the respective standards, be indelible marked with the word mark.

The products designed to come into direct contact with drinking products:

The Kiwa Water Mark “**KIWA** ”.

# 6 Requirements in respect of the quality system

This chapter contains the requirements which have to be met by the supplier's quality system.

## 6.1 Manager of the quality system

Within the supplier's organizational structure, an employee who will be in charge of managing the supplier's quality system must have been appointed.

## 6.2 Internal quality control/quality plan

The supplier shall have an internal quality control scheme (IQC scheme) which is applied by him.

The following must be demonstrably recorded in this IQC scheme:

- which aspects are checked by the supplier;
- according to what methods such inspections are carried out;
- how often these inspections are carried out;
- in what way the inspection results are recorded and kept.

This IQC scheme should at least be an equivalent derivative of the model IQC scheme as shown in the Annex.

## 6.3 Control of test and measuring equipment

The supplier shall verify the availability of necessary test and measuring equipment for demonstrating product conformity with the requirements in this evaluation guideline.

When required the equipment shall be kept calibrated ( e.g recalibration at interval).

The status of actual calibration of each equipment shall be demonstrated by traceability through an unique ID.

The supplier must keep records of the calibration results.

The supplier shall review the validity of measuring data when it is established at calibration that the equipment is not suitable anymore.

## 6.4 Procedures and working instructions

The supplier shall be able to submit the following:

- procedures for:
  - dealing with products showing deviations;
  - corrective actions to be taken if non-conformities are found;
  - dealing with complaints about products and/or services delivered;
- the working instructions and inspection forms used.

## 6.5 Other requirements

The supplier shall be able to submit the following:

- the organisation's organogram;
- qualification requirements of the personnel concerned.

# 7 Summary of tests and inspections

This chapter contains a summary of the following tests and inspections to be carried out in the event of certification:

- **pre-certification tests:** tests in order to ascertain that all the requirements recorded in the evaluation guideline are met;
- **inspection test: tests** carried out after the certificate has been granted in order to ascertain whether the certified products continue to meet the requirements recorded in the evaluation guideline;
- **inspection of the quality system of the supplier:** monitoring compliance of the IQC scheme and procedures.

## 1.2 Test matrix

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
<b>Product requirements</b>			
Requirements to avoid deterioration of the quality of drinking water	4.2.1	X	X
Hygienic treatment of products in contact with drinking water	4.3.2.1	X	X
<b>Certification mark</b>			
General	5.1	X	X
Certification mark	5.2	X	X
<b>Product requirements</b>			
<b>Requirements as stated in NEN-EN 14652 + A1</b>			
Classification	4	X	X
Materials	We refer to BRL-K14022, 4.2.1		
Resistance to temperature	6.3	X	
Resistance to hydrostatic pressure	6.4	X	X
Resistance to cyclic pressure	6.5	X	
Backflow prevention	6.6	X	X
Electrical safety	6.7	X	X
Noise level	6.8	X	
Air vent	6.9	X	X
End connections	6.10	X	X

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
Drain connection	6.11	X	X
Component replacement	6.12	X	
Back-washable modules	6.13	X	X
<i>Performance requirements</i>	7		
General	7.1	X	
Hydraulic performance (applicable to MF, UF)	7.2	X	X
<i>Mechanical performance</i>	7.3		
Housing resistance to static pressure	7.3.1	X	X
Cyclic pressure test of housing	7.3.2	X	
Module resistance to differential pressure (collapse pressure)	7.3.3	X	
Module cyclic differential pressure resistance applicable to MF,UF membranes operating in dead-end mode)	7.3.4	X	X
<i>Functional performance</i>	7.4		
Grade of filtration (particles rating)	7.4.1	X	X
Filtration rating (applicable to MF)	7.4.1.2	X	X
Organic molecule rejection-molecular cut-off	7.4.1.3	X	X
Salinity rejection rate (applicable to NF and RO)	7.4.1.4	X	X
Recovery rate (daily production rate)(applicable to MF,UF,NF,RO operating in cross-flow mode)	7.4.2	X	
Daily production	7.4.3	X	
<i>Instruction and information</i>	8		
Installation, operation and maintenance instructions – Instruction manual	8.1	X	X
Installation, operation and maintenance	Annex D	X	X
Marking and date plate	8.2	X	X
Performance date sheet	8.3	X	X
<b>Requirements as stated in NEN-EN 13443-1 + A1</b>			

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
<i>Classification</i>	4		
Principle	4.1	X	X
End Connection	4.3	X	X
Filter type	4.4	X	X
Nominal pressure	4.5	X	X
Materials (chemical and hygienic behaviour of materials)	We refer to BRL-K14022, 4.2.1		
<i>General design requirements</i>	6		
Backwashable filters	6.1	X	
Single-use filters	6.2	X	
Thermal stability	6.3	X	
<i>Performances requirements</i>	7	X	
Bending strength of the body	7.1	X	
Pressure strength of the filter housing	7.2	X	X
Pressure strength of the filter element	7.3	X	X
Dynamic pressure test	7.4	X	
Pressure drop	7.5	X	
Filter surface velocity	7.6	X	
Filter rating	7.7	X	X
<i>Technical documents, labelling and marking</i>	9		
Technical documentation	9.1	X	X
Installation and maintance	Annex B	X	X
Marking	9.2	X	X
<i>Labelling</i>	9.3		
Filters	9.3.1	X	X
Filter elements	9.3.2	X	X
<b>Eisen genoemd in NEN-EN 13443-2 + A1</b>			
<i>Design requirements</i>	5		
Materials	We refer to BRL-K14022, 4.2.1		

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
Filter housings	5.2	X	
Back -washable filters	5.3	X	
Cartridge filters	5.4	X	
Integral filters	5.5	X	
Design temperature	5.6	X	
Backflow prevention	5.7	X	X
<i>Performances requirements</i>	6	X	
Reference filtration rating	6.1	X	
Retention capacity	6.2	X	X
Clean pressure drop	6.3	X	
Maximum pressure drop	6.4	X	
Cartridge collapse pressure	6.5	X	X
Cartridge cyclic differential pressure resistance	6.6	X	
Particle shedding	6.7	X	X
Housing resistance to static pressure	6.8	X	X
Housing resistance to cyclic pressure	6.9	X	
<i>Technical documents, labelling and marking</i>	8		
Technical documentation	8.1	X	X
Marking	8.2	X	X
<i>Labelling</i>	8.3		
Filter housing	8.3.1	X	X
Filter element	8.3.2	X	X
Installation, operation and maintenance	Annex D	X	X
<b>Eisen genoemd in NEN-EN 14095</b>			
<i>Materials design and requirements</i>	4		
Dosaged of hydrated aluminium oxide	4.1	X	X
Direct current generator	4.2	X	X
Water meter	4.3	X	X
Anodes	4.4	X	X
Conditioning tank	4.5	X	X

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
<i>Performance requirements</i>	5		
DC generator	5.1	X	X
Terminals	5.2	X	X
<i>Technical documents and labelling</i>	7		
Rating plate on the DC generator	7.1	X	X
Owners booklet	7.2	X	X
Anodes	7.3	X	X
Label	7.4	X	X
<b>Requirements as stated in NEN-EN 14743 + A1</b>			
<i>Requirements</i>	4		
Softener specification	4.1	X	X
Quality of materials and chemicals	We refer to BRL-K14022, 4.2.1		
Regeneration salt	4.2.2	X	X
Resistance to hydrostatic pressure	4.3.1	X	X
Resistance to cyclic pressure	4.3.2	X	
Minimum and maximum operating pressure	4.3.3	X	
Resistance to temperature	4.3.4	X	
Electrical safety	4.3.5	X	X
Salt tank	4.3.6	X	X
Continuity of supply during regeneration	4.3.7	X	X
Protection against backflow and infiltration of brine	4.3.8	X	X
Noise level	4.3.9	X	
Air vent	4.3.10	X	X
End connections	4.3.11	X	
Drain connections	4.3.12	X	
<i>Operating specifications</i>	4.4		
Initiation of regeneration	4.4.1	X	X
Brining efficiency	4.4.2	X	
Regeneration water	4.4.3	X	



Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
Quality of treated water after regeneration	4.4.4	X	
Continuous flow rate	4.4.5	X	
Pressure drop	4.4.6	X	
Exchange capacity	4.4.7	X	X
<i>Installation specifications</i>	4.5		
Connection to mains water supply and existing pipe work	4.5.1	X	X
Drain	4.5.2	X	X
Electrical connection	4.5.3	X	X
<i>Labelling</i>	5		
Identification of equipment	5.1	X	X
Safety labelling	5.2	X	X
Technical documentation	6	X	X
Installation, operation and maintenance	Annex A	X	X
<b>Requirements as stated in NEN-EN 14897+A1</b>			
<i>Requirements</i>	4		
General	4.1	X	X
Radiation chamber	4.2	We refer to BRL-K14022, 4.2.1	
Low-pressure mercury UV lamps	4.3	X	X
<i>Electrical</i>	4.4		
General	4.1	X	X
Radiation chamber	4.2	X	X
Low-pressure mercury UV lamps	4.3	X	X
<i>Electrical</i>	4.4	X	X
General	4.4.1	X	X
UV disinfection devices	4.4.2	X	X
Sensor	4.4.2.2	X	X
UV bactericidal treatment devices	4.4.3	X	
Performance	4.5	X	X
Labelling	4.6	X	X
Manual	4.7	X	X

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
Installation, operation and maintenance	Annex F	X	X
<b>Requirements as stated in NEN-EN 14898 + A1</b>			
<i>System design requirements</i>	4		
Materials of construction	4.1	X	X
	We refer to BRL-K14022, 4.2.1		
<i>Working conditions</i>	4.2		
Working temperature	4.2.1	X	X
Working flow	4.2.2	X	X
Filter cartridge replacement	4.3	X	X
End connections	4.4	X	X
Backflow prevention	4.5	X	X
Exchange indicator	4.6	X	X
<i>Performance requirements</i>	5		
Pressure strenght of the filter housing	5.1	X	X
Dynamic pressure test housing	5.2	X	
Dynamic pressure test of cartridge	5.3	X	
Pressure drop	5.4	X	
<i>Substance reduction performance</i>	5.5		
Performance claims	5.5.1	X	X
Pressure drop	5.4	X	X
<i>Substance reduction performance</i>	5.5		
Performance claims	5.5.1	X	X
Chlorine reduction	5.5.2	X	X
Organic chemical reduction	5.5.3	X	X
Odour and flavour reduction	5.5.4	X	
Inorganic chemical reduction	5.5.5	X	X
Labelling	7.3		
Filter housing	7.3.1	X	X
Filter cartridge	7.3.2	X	X
Packaging	7.4	X	X
Installation operation and maintenance	Annex D	X	X

Description of requirements	Artikel BRL	Tests within the scope of	
		Pre-certification	Inspection <sup>a), b)</sup>
<b>Requirements as stated in NEN-EN 14812 + A1</b>			
<i>Design requirements</i>	4		
Materials of construction	We refer to BRL-K14022, 4.2.1		
Connections	4.2	X	X
Venting	4.3	X	X
Radio interference and electrical safety	4.4	X	X
Dosing agent containers	4.5	X	X
Accessibility	4.6	X	X
Nominal size	4.7	X	X
<i>Performance requirements</i>	5		
Dosing and dosing agents	5.1	X	X
Dosing	5.1.2	X	X
Working ranges	5.2	X	X
Protection against backflow of proprietary chemical	5.3	X	X
Working temperature range	5.4	X	X
<i>Pressure conditions</i>	5.5		
Nominal pressure and working pressure range	5.5.1	X	X
Effects of pressure variations	5.5.2	X	
Pressure drop	5.5.3	X	
Water hammer	5.5.4	X	
<i>Labelling</i>	7		
Nameplate on dosing apparatus	7.1	X	X
Information to be given on dosing agent container	7.2	X	X
Manufacturer's product information	8	X	X
Installation, operation and maintenance	Annex B	X	X

a) In case the product or production process changes, it must be determined whether the performance requirements are still met.

b) All product characteristics that can be determined within the visiting time (maximum 1 day) are determined by the inspector or by the supplier in the presence of the inspector. In case this is not possible, an agreement will be made between the certification body and the supplier about how the inspection will take place. The frequency of inspection visits is defined in chapter 8.6 of this evaluation guideline.

## **7.2 Inspection of the quality system of the supplier**

The quality system of the supplier will be checked by Kiwa on the basis of the IQC scheme.

The inspection contains at least those aspects mentioned in the Kiwa Regulations for Certification.

# 8 Agreements on the implementation of certification

## 8.1 General

Beside the requirements included in these evaluation guidelines, the general rules for certification as included in the Kiwa Regulations for Product Certification also apply. These rules are in particular:

- the general rules for conducting the pre-certification tests, in particular:
  - the way suppliers are to be informed about how an application is being handled;
  - how the test are conducted;
  - the decision to be taken as a result of the pre-certification tests.
- the general rules for conducting inspections and the aspects to be audited,
- the measures to be taken by Kiwa in case of Non-Conformities,
- the measures taken by Kiwa in case of improper use of Certificates, Certification Marks, Pictograms and Logos,
- terms for termination of the certificate,
- the possibility to lodge an appeal against decisions of measures taken by Kiwa.

## 8.2 Certification staff

The staff involved in the certification may be sub-divided into:

- Certification assessor (**CAS**): in charge of carrying out the pre-certification tests and assessing the inspectors' reports;
- Site assessor (**SAS**): in charge of carrying out external inspections at the supplier's works;
- Decision maker (**DM**): in charge of taking decisions in connection with the pre-certification tests carried out, continuing the certification in connection with the inspections carried out and taking decisions on the need to take corrective actions.

### 8.2.1 Qualification requirements

The qualification requirements consist of:

- qualification requirements for personnel of a certification body which satisfies the requirements EN ISO / IEC 17065, performing certification activities
- qualification requirements for personnel of a certification body performing certification activities set by the Board of Experts for the subject matter of this evaluation guideline

Education and experience of the concerning certification personnel shall be recorded demonstrably.

Basic requirements	Evaluation criteria
Knowledge of company processes Requirements for conducting professional audits on products, processes, services, installations, design and management systems.	<i>Relevant experience: in the field</i> <b>SAS, CAS</b> : 1 year <b>DM</b> : 5 years inclusive 1 year with respect to certification Relevant technical knowledge and experience on the level of: <b>SAS</b> : High school <b>CAS, DM</b> : Bachelor

Basic requirements	Evaluation criteria
Competence for execution of site assessments. Adequate communication skills (e.g. reports, presentation skills and interviewing technique).	<b>SAS:</b> Kiwa Audit training or similar and 4 site assessments including 1 autonomic under review.
Execution of initial examination	<b>CAS:</b> 3 initial audits under review.
Conducting review	<b>CAS:</b> conducting 3 reviews

Technical competences	Evaluation Criteria
Education	<b>General:</b> Education in one of the following technical areas: <ul style="list-style-type: none"> <li>• Civil Engineering;</li> <li>• Engineering.</li> </ul>
Testing skills	<b>General:</b> <ul style="list-style-type: none"> <li>• 1 week laboratory training (general and scheme specific) including measuring techniques and performing tests under supervision ;</li> <li>• Conducting tests (per scheme).</li> </ul>
Experience - specific	<b>CAS</b> <ul style="list-style-type: none"> <li>• 2 complete applications (excluding the initial assessment of the production site) under the direction of the <b>CAS</b></li> <li>• 1 complete application self-reliant (to be evaluated by <b>PM</b>)</li> <li>• 2 initial assessments of the production site under the direction of the <b>PM</b></li> <li>• 1 initial assessment of the production site self-reliant (witnessed by <b>PM</b>)</li> </ul> <b>SAS</b> <ul style="list-style-type: none"> <li>• 1 inspection visits conducted self-reliant (witnessed by <b>PM</b>)</li> </ul>
Skills in performing witnessing	<b>PM</b> Internal training witness testing

Legenda:

- Certification assessor (**CAS**)
- Decision maker (**DM**)
- Product manager (**PM**)
- Site assessor (**SAS**)

### 8.2.2 Qualification

The qualification of the Certification staff shall be demonstrated by means of assessing the education and experience to the above mentioned requirements. In case staff is to be qualified on the basis of deflecting criteria, written records shall be kept.

The authority to qualify staff rests with the:

- **PM:** qualification of **CAS** and **SAS**;
- management of the certification body: qualification of **DM**.

### 8.3 Report pre-certification tests

The certification body records the results of the pre-certification tests in a report. This report shall comply with the following requirements:

- completeness: the report provides a verdict about all requirements included in the evaluation guideline;
- traceability: the findings on which the verdicts have been based shall be recorded and traceable;
- basis for decision: the **DM** shall be able to base his decision on the findings included in the report.

#### **8.4 Decision for granting the certificate**

The decision for granting the certificate shall be made by a qualified Decision maker which has not been involved in the pre-certification tests. The decision shall be recorded in a traceable manner.

#### **8.5 Layout of quality declaration**

The product certificate shall be in accordance with the model included in the Annex.

#### **8.6 Nature and frequency of third party audits**

The certification body shall carry out surveillance audits on site at the supplier at regular intervals to check whether the supplier complies with his obligations. The Board of Experts decides on the frequency of audits.

At the time this BRL entered into force, the frequency of audits amounts 2 audit(s) on site per year for suppliers with a quality management system in accordance with ISO 9001 for their production, which has been certified by an acknowledged body (in accordance with ISO/IEC 17021) and where the IQC scheme forms an integral part of the quality management system.

In case the supplier is not in possession of any product certificate (issued by Kiwa or any other accredited certification body), the frequency is increased to 3 visits for the duration of one year.

The audit program on site shall cover at least:

- the product requirements;
- the production process;
- the suppliers IQC scheme and the results obtained from inspections carried out by the supplier;
- the correct way of marking certified products;
- compliance with required procedures;
- handling complaints about products delivered.

For suppliers with a private label certificate the frequency of audits amounts to one audit per two years. These audits are conducted at the site of the private label certificate holder. The audits are conducted at the site of private label holder and focussed on the aspects inserted in the IQC scheme and the results of the control performed by the private label holder. The IQC scheme of the private label holder shall refer to at least:

- the correct way of marking certified products;
- compliance with required procedures for receiving and final inspection;
- the storage of products and goods;
- handling complaints.

The results of each audit shall be recorded by Kiwa in a traceable manner in a report.

#### **8.7 Report to the Board of Experts**

De certification body shall report annually about the performed certification activities. In this report the following aspects are included:

- mutations in number of issued certificates (granted/withdrawn);
- number of executed audits in relation to the required minimum;

- results of the inspections;
- required measures for established Non-Conformities;
- received complaints about certified products.

### **8.8 Non conformities**

When the certification requirements are not met, measures are taken by Kiwa in accordance with the sanctions policy. The Sanctions Policy is available through the "News and Publications" page on the Kiwa website ["Kiwa Regulation for Certification"](#).

### **8.9 Interpretation of requirements**

The Board of Experts may record the interpretation of requirements of this evaluation guideline in one separate interpretation document.



## 9 Titles of standards

### 9.1 Public law rules

BJZ2011048144  
29 juni 2011

Regeling van de Staatssecretaris van  
Infrastructuur en Milieu<sup>1</sup>

### 1.3 Standards / normative documents

Number	Title
NEN-EN 13443-1 + A1	Water conditioning equipment inside buildings – Mechanical filters – Part 1: Particle rating 80µm to 150µm - Requirements for performances, safety and testing
NEN-EN 13443-2 + A1	Water conditioning equipment inside buildings – Mechanical filters – Part 2: Particle rating 1µm less than 80µm – Requirements for performance, safety and testing
NEN-EN 14095	Water conditioning equipment inside buildings – Electrolytic treatment systems with aluminium anodes – Requirements for performance, safety and testing
NEN-EN 14652 + A1	Water conditioning equipment inside buildings – Membrane separation devices – Requirements for performance, safety and testing
NEN-EN 14743 + A1	Water conditioning equipment inside buildings – Softeners – Requirements for performance, safety and testing
NEN-EN 14812 + A1	Water conditioning equipment inside buildings – Chemical dosing systems – Pre-set dosing systems – Requirements for performance, safety and testing
NEN-EN 14897 + A1	Water conditioning equipment inside buildings – Devices using mercury low-pressure ultraviolet radiators – Requirements for performance, safety and testing
NEN-EN 14898 + A1	Water conditioning equipment inside buildings – Active media filters – Requirements for performance, safety and testing
NEN-EN ISO/IEC 17020	Conformity assessment – General criteria for the operation of various types of bodies performing inspection
NEN-EN ISO/IEC 17021	Conformity assessment – Requirements for bodies providing audit and certification of management systems
NEN-EN ISO/IEC 17024	Conformity assessment – General requirements for bodies operating certification of persons
NEN-EN-ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
NEN-EN-ISO/IEC 17065	Conformity assessment – Requirements for bodies certifying products, processes and services

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<sup>1</sup> Valid from 1 July 2017

# I Model certificate (informative)



## Product certificate KXXXXXX/0X

Issued

Replaces

Page 1 of 1

CERTIFICATE

### Name product

#### STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Certification, Kiwa declares that legitimate confidence exists that the products supplied by

### Name customer

as specified in this product certificate and marked with the Kiwa®-mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with Kiwa evaluation guideline BRL-xxxx "xxxxxxxxxxxxxxxxxxxxxxxx" dated [dd-mm-yyyy] inclusive amendment sheet dated dd-mm-yyyy.

Luc Leroy  
Kiwa

Publication of this certificate is allowed.

Advice: consult [www.kiwa.nl](http://www.kiwa.nl) in order to ensure that this certificate is still valid.

Kiwa Nederland B.V.  
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Company  
Name customer  
Address customer  
  
Phone number  
Fax number  
www.  
Email

Certification process  
consists of initial and  
regular assessment of:

- quality system
- product

140410

## II Model IQC-scheme (informative)

Inspection subjects	Inspection aspects	Inspection method	Inspection frequency	Inspection registration
Raw materials or materials supplied: - recipe sheets  - incoming goods inspection raw materials				
Production process, production equipment, plant: - procedures - working instructions - equipment - release of product				
Finished-products				
Measuring and testing equipment - measuring equipment  - calibration				
Logistics - internal transport - storage - preservation  - packaging - identification				