This schedule of materials concerns fittings, manifolds, valves and similar building components made of metal, of metal and plastic/elastomers, or entirely of plastic/elastomers.

Fittings, manifolds, valves and similar made of

* pure copper,
* electrogalvanized steel, or
* hot-dip galvanized steel,

cannot be approved under the ”Approved for use with drinking water” scheme and therefore cannot be marked under the approval scheme.  It is, however, important that these building components are marked “in such a way that incorrect use can be avoided”. Read more about this in section 2.4 of the Guideline for building components approved for use with drinking water, version 3.0 of 22 May 2015.

Before you fill out your schedule of materials, it is recommended that you complete the form for product names/versions, so that you have a complete overview of which building components are included in your application, and how you will determine the test version (see below).

The forms in this document expand to fit your text as you fill out the cells. If you want to add a new row to the forms, place your cursor in the last cell in a row and press the "Tab" key on your keyboard.

**Use of toxicological advisor**
In certain cases a toxicological advisor must be used to carry out a toxicological assessment of the building component, prepare an appropriate test programme and subsequently carry out an assessment and draw conclusions from the test results.

This is required when the building component or its individual components consist of:

* Plastic/elastomers.

**Information on the building component and its individual components (subassemblies)**
Enter details below on the individual components and materials included in the building component under application and which come into contact with or can release substances into drinking water. State the information at the level of detail required for the application. If your building component is made entirely of one type of material, then it is only necessary to specify “entire building component“ and the type of material in the relevant form below. In the same way, you can group subassemblies of the building component, if they are made from the same type of material. It should be possible to identify the subassemblies on the drawings submitted.

Complete the forms and sections below that are relevant for your application, and attach the completed schedule of materials to the application form.

**Test version (the version of the building component that is representative for the application)**
All the information provided in the forms below must be based on that version of the building component which is representative for all the versions applied for and which, under testing, constitutes a “worst case” in relation to contact with drinking water and risk of migration of harmful substances into drinking water.

***A. Building components made of metal***

For fittings, manifolds, valves etc. made of metal alloys other than stainless steel EN 1.4000-1.4999, in general it will be possible to choose a test version with any diameter DN, however see below. Testing is not required for building components or individual components that are made entirely of stainless steel EN 1.4000-1.4999.

The testing requirement for lead in Annex 1, Table 2 of the Approval Executive Order is considered met if the values for release of lead to the drinking water for different dimensions (DN) as stated in the tables below are observed for the version of the building component under test. The threshold value for lead will therefore depend on the DN of the test version chosen.

The testing requirements for cadmium and nickel will continue to be the values stated in Annex 1, Table 2 of the Approval Executive Order.

*Table 1: Accepted test values for lead for fittings, manifolds, etc.:*

|  |  |  |
| --- | --- | --- |
| **DN** | **Testing requirement from 1 April 2016** | **Testing requirement before 1 April 2016** |
| 15  |  5.0 µg | 20 µg |
| 18  |  5.0 µg | 20 µg |
| 22  |  5.0 µg | 20 µg |
| 28  |  5.0 µg | 20 µg |
| 35  |  6.3 µg | 20 µg |
| 42  |  7.5 µg | 20 µg |
| 54  |  9.6 µg | 20 µg |
| 63  | 11.3 µg | 20 µg |

This scale is based on a fitting with dimension DN 28 complying with the testing requirement for lead in Annex 1, Table 2 of the Approval Executive Order.

*Table 2. Accepted test values for lead for valves etc.:*

|  |  |  |
| --- | --- | --- |
| **DN**  | **Testing requirement from 1 April 2016** | **Testing requirement before 1 April 2016** |
|  10  |  5 µg | 20 µg |
|  15  |  5 µg | 20 µg |
|  20  |  5 µg | 20 µg |
|  25  |  5 µg | 20 µg |
|  32  |  6.4 µg | 20 µg |
|  40  |  8 µg | 20 µg |
|  50  | 10 µg | 20 µg |
|  65  | 13 µg | 20 µg |
|  80  | 16 µg | 20 µg |
|  90  | 18 µg | 20 µg |
| 100  | 20 µg | 20 µg |

This scale is based on a valve with dimension DN 25 complying with the testing requirement for lead in Annex 1, Table 2 of the Approval Executive Order.

In general, fittings, manifolds etc. and valves etc. can be chosen as a test version with any dimension, provided that it is representative for all the versions under application and when testing is ”worst case”.

However, other factors could also contribute to defining which version of the building component will constitute the test version. Therefore, for fittings with the same type of joining function, but in several versions (bent, straight, tee-pieces, etc.) and dimensions, the version with the greatest surface-area contact with drinking water will constitute the test version, for example, a tee-piece rather that a bent fitting and a longer version rather than a shorter one.

Finally, it may influence the choice of test version if the building component has undergone special manufacturing processes, which means that substances can migrate into the drinking water. For example, if a building component is zinc-plated or nickel-plated, or if oil is used as a lubricant in the production of the building component and a subsequent cleaning process is not carried out. In these cases, a test version which has undergone the special manufacturing process should be chosen. However, the other requirements for the test version must still be met, including DN and volume/length.

If you are in doubt about the test version, contact the Secretariat by e-mail before you start testing.

For fittings, manifolds, valves etc. made of metal, the same test version must be used in tests for lead, cadmium and nickel.

***B. Building components made of plastic/elastomers***

For fittings, manifolds, valves etc. made of plastic/elastomers, your toxicological advisor must define the test version based on the materials of plastic/elastomers that the building component or individual component is composed of. As part of the assessment and determination of the appropriate test programme, the toxicological advisor should account for which version of the building component is to be tested as the test version. The same applies to the individual components made of plastic/elastomers. If possible, the building component or individual components should be tested with a surface area-to-volume ratio of 1, i.e. a surface area of 1 cm2 corresponds to 1 ml water.

**Specification of the test version**
Specify in this form the test version of the building component that will form the basis for the application.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Brand name** | **Product name** | **Item / serial number****(Optional)** | **Dimension: DN** | **Dimension: length** |
|  |  |  |  |  |

Note: There is no requirement to test fittings, manifolds and valves etc. made entirely of stainless steel alloys EN 1.4000-1.4999, and it is therefore not necessary to specify a test version.

If more test versions than one are used, they should all be listed. Test versions that are not covered by the application cannot be listed.

**Exemption for components in marginal contact with drinking water**
Should you wish to exempt individual components in the building component from testing, enter them in the form below as follows:

Some individual components are only in marginal contact with drinking water, either in terms of area or time. Therefore, as they are not in significant contact with drinking water, they are exempted from assessment and testing. The area exemption is relevant for small individual components, which as a rule have a surface area in contact with drinking water of less than 4 cm2 when the building component is in use, such as O-rings, small gaskets and other small individual components. It may also be relevant for certain components in very large building components. The time exemption is relevant for individual components which are in contact with drinking water for less than 30 minutes at a time, e.g. if the contact with drinking water is limited to contact while draining the water. You can see a list with examples of exemptions on the website of the scheme.

The Secretariat does not require information on small individual components such as O-rings and small gaskets with less than 4 cm2 in contact with drinking water, or tap aerators, but they must be included and shown in drawings or other material in the application.

If you believe there are other individual components in the test version of the building component which are only in marginal contact with drinking water, either in terms of surface area or in terms of time, enter them in this form and explain more detailed why they should be exempted from assessment and testing. If the reason relates to marginal contact in terms of surface area, the surface area in contact with drinking water of the individual component should always be stated.

|  |  |  |  |
| --- | --- | --- | --- |
| **Components in marginal contact with drinking water** | **Area-****related****(Tick here)** | **Time-****related****(Tick here)** | **Reason** |
|  |  |  |  |

**Components and materials in contact with drinking water that can carry a risk of migration of harmful substances into drinking water**
In the forms below, specify under points A and B all the individual components in the building component that are in contact with drinking water, or could otherwise cause migration of harmful substances into drinking water, and which, in scope (area) and degree of contact (time) have significant contact with the drinking water (i.e. are not exempted because of marginal contact with drinking water).

If the building component is manufactured and placed on the market with combinations of different subassemblies, all of these subassemblies should be entered on the form below.

If an individual component/subassembly in the building component has a separate, valid “Approved for use with drinking water” approval (GDV approval) or a VA approval (health-related properties), which you would like to use as a basis for the application for approval instead of testing the component/subassembly, then the relevant approval number for the component/subassembly should be specified. For VA approvals, only approvals of components that have been VA-approved with regard to health-related properties before 1 April 2013 and that are still valid, can be used as a basis for approvals. It is also necessary to attach the actual VA approval to the application.

Foreign approvals should generally not be referred to or attached, but there may be a basis or background documentation for foreign approvals, which can be used as documentation. For example, this may be specific foreign toxicological assessments, test programmes and test results, provided that these are in accordance with the requirements in the Approval Executive Order and can therefore be included as documentation for the building component under application.

If you plan to base your application for approval of a building component on an individual component that is in the process of being “Approved for use with drinking water”, then the case number for the application for approval of the component as an independent building component should be specified instead. In such case, processing of your application will have to await the issue of an approval for the individual component as an independent building component.

**A. Metal components**
Specify below the types of alloy for the metal components contained in the building component by completing forms 1 and 2 to the extent that is relevant for your building component. Proceed directly to the next section if your building component does not contain metal.

Specify either the alloy number or the formula/composition. Other documentation for the alloy type is not required.

You should also state whether there are special coatings on the component or substances from the manufacturing processes, which can migrate into drinking water.

**1. Stainless steel alloys EN 1.4000-1.4999**
It is not required to test stainless steel alloys of type EN 1.4000-1.4999. You must specify the alloy type below.

However, if the component is chrome-plated or nickel-plated, then it must be tested for nickel in accordance with table 2 in Annex 1 of the Approval Executive Order. It is therefore necessary in these cases to attach test documentation for nickel carried out as accredited testing on three trial samples in accordance with table 2 in Annex 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Component** | **Alloy****(Specify alloy type)** | **Chrome plating/****Nickel plating****(Tick here)** | **Coating/****substances from** **manufacturing processes, if relevant** **(Specify)** | **GDV approval (“Approved for use with drinking water”) / VA approval****(Specify approval number)** |
|  |  |  |  |  |

**2. Other metal alloys**
All other metal alloys must be tested for lead and cadmium according to table 2 in Annex 1 of the Approval Executive Order. Specify the alloy type below.

If the component is chrome-plated or nickel-plated, then it must also be tested for nickel according to table 2 in Annex 1. It is therefore necessary to include test documentation for nickel carried out as an accredited test on three trial samples in accordance with table 2 in Annex 1.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Component** | **Alloy****(Specify alloy type)** | **Chrome plating/Nickel plating****(Tick here)** | **Coating/****substances from manufacturing****processes, if relevant** **(Specify)** | **GDV approval (“Approved for use with drinking water”) / VA approval****(Specify approval number)** |
|  |  |  |  |  |

Checks for traceability between type of alloy and the documentation on the material are included in the annual inspection.

**B. Components made of plastic/elastomers**
Specify below the types of plastic/elastomer that the building component contains by completing the form to the extent relevant for your building component. Proceed directly to the next section if your building component does not contain plastic/elastomers.

For all plastic or elastomer components (except those that are exempted, either generally or specifically, as mentioned above) a test programme based on a toxicological assessment must be drawn up and tests undertaken according to table 1 in Annex 1 of the Approval Executive Order for relevant substances that can influence drinking water.

You should attach the toxicological advisor's assessment and test programme, the relevant test documentation and the toxicological advisor's assessment of the test result.

|  |  |  |
| --- | --- | --- |
| **Component** | **Material type** | **GDV approval (“Approved for use with drinking water”) / VA approval****(Specify approval number)** |
|  |  |  |

**Declaration on "on-demand" production**
If the building component application also includes “on-demand” products, then the product range to be covered by the approval should be specified in the form below.

“On-demand” production means that you would like to manufacture variations of your building component which do not exist at the moment, for example based on customer requests, within a given product range. In "on-demand" production, the building component can be delivered upon special request from a specific customer ordering the same version of the building component in terms of design, manufacturing process and materials, but in a variant with special dimensions that do not match any of the versions in the version list.

You should only choose on-demand production if you are already using such production or if you have concrete plans to use it. If you only want to place on the market and manufacture the versions you have stated in your list of product names/versions, you should not complete the form below.

The product range for on-demand production should comply with the test version of the building component, which forms the basis of the application.

The applicant must solemnly declare that the “on-demand” products that the company will manufacture with reference to the approval of the building component under application, will be within the specified product range.

|  |  |  |
| --- | --- | --- |
| **Brand name** | **Product name** | **Overall item number /serial number /type /model****(Optional)** |
|  |  |  |

|  |
| --- |
| **Product range for “on-demand” variants included**  |
| *DN* | *Smallest:* |  |
| *Largest:* |  |
| *Length* | *Shortest:* |  |
| *Longest:* |  |
| *Other* |  |
| *Other* |  |

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