

Product certificate K7293/07

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Replaces K7293/06
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Copper tubes

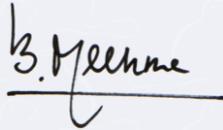
STATEMENT BY KIWA

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

Mueller Europe Ltd.

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-K760: "Copper tubes".



Bouke Meekma
Kiwa

Publication of the certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

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2871/30829

Supplier

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**Certification process
consists of initial and
regular assessment of:**

- quality system
- product

Copper tubes

PRODUCT SPECIFICATION

General

Copper tubes according guideline BRL-K760: "Copper Tubes", which covers EN 1057 "Copper tubes".

Additional specification

Soft copper tubes in the sizes 12 x 1,0mm; 15 x 1,0 mm and 22 x 1,1 mm (coils of 25 m or 50 m);

Half hard copper tubes in the sizes 12x 1,0 mm up to 54 x 1,5 mm;

Hard copper tubes in the sizes 64 x 2,0 mm up to 108 x 2,5 mm;

Inner surface cleaning of the tubes:

12x1,0 up to 22x1,1 mm are annealed or gas purged.

28x1,2 mm are annealed or degreased.

35x1,5 up to 108,0x2,5mm are degreased.

APPLICATION AND USE

The products are intended to be used for drinking water installation for transport of hot and cold water.

TOXICOLOGICAL REQUIREMENTS

Approval:

This product is approved on the basis of the requirements set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Regulation on materials and chemicals in drinking water and warm tap water supply"), published in the Government Gazette.

ATA criteria:

The ATA product certification is based on two main criteria. It should permanently comply with:

- The product recipe approved during the assessment procedure. This recipe is laid down in, for confidentiality reasons, the undisclosed ATA appendix to the Kiwa certificate K7293. This recipe is not to be changed without prior approval by Kiwa, according to the Kiwa-ATA-approval procedure;
- Specific ATA-product requirements have been laid down in the ATA appendix to the Kiwa certificate K7293. For confidentiality reasons, this ATA appendix is not public.

MARKING

The Kiwa[®]-mark products are marked with the word mark "KIWA  or the abbreviated work mark "".

Place of the mark: separated by a distance of up to 0.6 m on the outside of the tube.

Compulsory specifications:

- Diameter * wall thickness in mm;
- Hardness;
- EN 1057;
- Name of the supplier;
- Production month and year.

Method of marking:

- non-erasable;
- visible after assembly.

RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Mueller Europe Ltd.
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.

Appendix ATA to certificate K7293 for copper pipes

Commencing date: December 1, 2013

Product specification

This Appendix ATA is only related to 'copper pipes' supplied by Mueller Europe Ltd.

Composition

The 'copper pipes' is approved with the following composition

Part	Material	Remarks
Pipe	Cu-DHP	This material has to meet the requirements of the Composition List. In the table below, the accepted Cu-DHP composition is given for reference.

Composition of the accepted Cu-DHP

Constituent components	Content (%)	Impurities	Maximum content (%)
Copper	≥ 99.9	Total	≤ 0.1
Phosphorus	≤ 0.04		

Above mentioned recipe as well as the mentioned composition is not to be changed without prior approval according to the Kiwa-ATA-approval procedure.

Mueller Europe Ltd. is always responsible for an advance notification of changes in the composition.

Criteria/requirements for the product

The criteria and requirements according to the 'Regeling materialen en chemicaliën drink- en warm tapwatervoorziening' ('Regulation materials and chemicals drinking water and warm tap water supply'; published in the Government Gazette) apply to these products.

The following requirements apply:

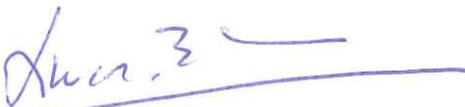
- The amount of carbon on the inner surface of copper pipes and fittings is limited according to NEN-EN 1057:2006+A1. For pipes with an external diameter greater than 54 mm manufactured from hard material (R290 according to EN 1173:2008) the maximum is 1,0 mg/dm². For other pipes and fittings the maximum is 0,2 mg/dm². The amount of carbon on the inner surface of the pipes has to be measured according to the 'Total carbon' method described in NEN-EN 723:2009.

The present Appendix ATA replaces previous versions, if any.

Drawn up in duplicate and signed,

Rijswijk,

Kiwa Nederland B.V.



drs. L.W.C.A van Breemen,
manager product group Kiwa-ATA

WEST MIDLANDS,

Mueller Europe Ltd.



J. Rogers
Quality Manager