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Issued	1 January 2013	Scope	KE 5
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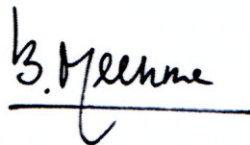
Product Certificate

Copper Tubes

Based on pre-certification tests as well as periodic inspections by Kiwa Nederland B.V., the products referred to in this certificate and marked with the GASTEC QA mark, supplied by

Halcor S.A. Metal Works

may, on delivery, be relied upon to comply with the GASTEC QA Approval Requirements nr. 5 , for " Copper Tubes ", dated July 2010 .



Bouke Meekma
Kiwa

This certificate is issued by Kiwa Nederland B.V. in conjunction with the "KIWA regulations for carrying the GASTEC QA quality mark".

This certificate consists of 2 pages.
Publication of the certificate is allowed.

Kiwa Nederland B.V.
Wilmsdorf 50
P.O. Box 137
7300 AC APELDOORN
The Netherlands
Tel. +31- 55 539 33 55
Fax +31- 55 539 36 76
www.kiwa.nl



Company
Halcor S.A. Metal Works
National Road Athens
Lamia 75th K
GR 32011 INOFITA VIOTLAS
Greece

www.halcor.gr
T + 30 22620 48 111
F + 30 22620 48 799
E ianagnost@halcor.vionet.gr



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Copper Tubes

PRODUCT SPECIFICATION

Copper Tubes in accordance with the GASTEC QA requirements nr. 5 "Copper Tubes, possibly provided with a finish coat " dated July 2010.

Hardness and dimensions:

Quality Annealed (R220)

Dimensions: Ø 12x1.0, 15x1.0 en 22x1.1 mm

Quality Half hard (R250)

Dimensions: Ø 12x1.0, 15x1.0, 22x1.1, 28x1.2 mm

Quality Hard (R290)

Dimensions: Ø 35x1.5, 42x1.5, 54x1.5, 64x2.0, 76,1x2.0 mm

Soft copper tubes (R220) with a PVC coating

Dimensions: 12x1,0 mm, 15x1.0 mm and 22x1,1 mm

[coils of 25 m or 50 m]

APPLICATION AND USE

Copper tubes suitable for use in contact with 2nd and 3rd family gases in accordance with NEN-EN-ISO13686:2005 and suitable for a maximum operating pressure of 1 bar natural gas.

MARKING

- The GATEC QA word mark, logo or punch mark;
- Manufacturer's name or symbol;
- Date of production: year and month;
- EN 1057;
- Outside diameter wall thickness;
- Hardness of the pipe material, e.g. R220, R250 or R290
- Type of covering (PVC cover)

Place of the mark:

- The outside of the pipe(each meter)

Method of marking:

- Non-erasable

RECOMMENDATIONS FOR CUSTOMERS:

1. Check at the time of delivery whether:
 - 1.1 the producer has delivery in accordance with the agreement;
 - 1.2 the mark and the marking method are correct;
 - 1.3 the products show no visible defects as a result of transport etc.
2. If you should reject a product on the basis of the above, please contact:
 - 2.1 Halcor S.A. Metal Works in Greece and, if necessary,
 - 2.2 Kiwa Nederland B.V.
3. Consult the producer's processing guidelines for the proper storage and transport methods.
4. Check whether this certificate is still valid by consulting the publication list for Gastec Certificates (Kluwer Handboek).