







中国认可 国际互认 检测 TESTING CNAS-L0599

TEST REPORT

No.: SHIN1904021090ML

Date: Apr 16, 2019

Page: 1 of 3



CUSTOMER NAME: METAL & TOOLS TRADE LIMITED

ADDRESS: FLAT B, 3/F, KO SHUN HOUSE, 329-331 NATHAN ROAD,

KOWLOON, HONGKONG

Sample Name : SEAMLESS COPPER TUBE

Product Specification : 9.52 x 0.81mm

Product or Lot No. : R410 TO K-FLEX 03-01-2019

Manufacturer : METAL & TOOLS TRADE LIMITED

Buyer : K-FLEX INSULATION & A/C PARTS LIMITED

Material and Mark : ASTM B280, C12200

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Test Required : Chemical Composition Analysis, Tensile Test, Dimension Measurement

Ref. Standard : ASTM B280-08
Date of Receipt : Apr 04, 2019
Testing Start Date : Apr 04, 2019
Testing Ford Parts : Apr 16, 2019

Testing End Date : Apr 16, 2019

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

Signed for

SGS-CSTC Standards Technical Service (Shanghai)Co., Ltd.

Kelly Shi

Authorized signatory



f(86-21) 68183122/68183920 www.sgsgroup.com.cn

Member of the SGS Group (SGS SA)



TEST REPORT

No.: SHIN1904021090ML

Date: Apr 16, 2019

Page: 2 of 3

1. Chemical Composition Analysis:

Test Method: Cu: GB/T 5121.1-2008

Others: GB/T 5121.27-2008(ICP-OES)

	1	,			
Element	Cu	Ag	Р	Con.	
Req.,%	≥99.90	-	0.015~0.040	-	
Result ,%	99.96	<0.001	0.020	Pass	

Note: The result comply with the requirement of ASTM B280-08 type C12200.

2. Tensile Test:

Test Method: ASTM E8/E8M-16a

Tool Mothod: ACTM Ed/EdM Tod							
Test item	Specimen type	Tensile strength (MPa)	Yield strength (0.2% offset) (MPa)	Elongation after fracture G=2 in. (%)	Con.		
Req.	-	≥205	-	≥40	-		
Result	Full-size tubular specimen	245	82	50.0	Pass		

Note: The results comply with the requirement of ASTM B280-08 type C12200.



so otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service prints eaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.apx and, for electronic focuments at http://www.sgs.com/en/Terms-and-Conditions.apx and for electronic focuments at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.asx tion is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document sed that information contained hereon reflects the Company is findings at the time of its Intervention only and within the limits its instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to action from exercising all their rights and obligations under the transaction documents. This document cannot be reproduce to its fill, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content arance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated it is shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



TEST REPORT

No.: SHIN1904021090ML

Date: Apr 16, 2019

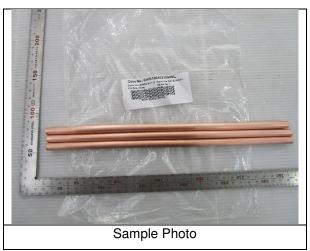
Page: 3 of 3

3. Dimension Measurement:

Unit(mm)

Test Item		Theoretical Value		Results			Test			
No	Positio n	Dimension	Nomin al	Tolerance (+)	Tolerance (-)	Measur e	Deviatio n	Outt ol	Con	Equipment
1		Diameter	9.52	0.051	0.051	9.526	0.006	0	0	Micrometer
2		Wall thickness	0.81	0.08	0.08	0.84	0.030	0	0	Callipers
3		Roundness	0	0.076	0	0.073	0.073	0	0	CMM
4		Weight (Kg/m)	0.199	-	-	0.191	-0.008	-	-	Electronic scale/Callipe rs

Note: "O" indicates Pass, "x" indicates Fail.



****** End of report******

In the territory of the People's Republic of China, the test report with CMA logo expresses that the test items are within the scope of China Metrology Accreditation(CMA); without CMA logo expresses that part/all of the test items are not within the scope of China Metrology Accreditation(CMA), and just for client internal reference.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx, and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sqs.com/en/Terms-and-Conditions/Ferms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is divised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawfull and offenders may be prosecuted to the fullest tent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 中国・上海・浦东康桥东路1159弄69号 邮编: 201319

t (86-21) 61196300

t (86-21) 61196300 f (86-21) 68183122 / 68183920 www.sqsqroup.com.cn f(86-21) 68183122/68183920 e sgs.china@sgs.com