



TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea

TEL 82-2-2164-0011

FAX 82-2-2634-1008

Report No : TAK-2020-068281

Receipt Date : 2020.04.27.

Representative : Chung Chun Sik

Test Completion Date : 2020.05.14.

Company name : Leader Energy

Address : 710ho, Na-Dong(MegaZone), 117 Hwanggeum-Ro, Yangchon-Myeon, Kimpo-Si, Gyeonggi-do, Republic of Korea

Sample name : HEAT PIPE

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Tensile load	N	-	43 748	Provided By Client
Compressive load	N	-	3 502	Provided By Client

* Tensile load

-Universal testing machine: GALDABINI SUN 60, test speed: 5 mm / min

-Sample size copper pipe outer diameter: 25.4 mm, inner copper pipe outer diameter: 15.88 mm.

** Compressive load

-Universal testing machine: GALDABINI SUN 60, test speed: 5 mm / min

-Sample size copper pipe outer diameter: 25.4 mm, copper pipe length: 150 mm.

- Usage of Report : QUALITY CONTROL

- Note :
1. The test results of this test report are only limited in to the samples and sample names provided by the client and do not guarantee the quality of all products of the client. You Can check website (www.ktr.or.kr) or QR code to verify the authenticity of the certificate.
 2. This test report shall be used only within the purpose of its defined usage and shall not be used for public relation, advertisement and lawsuit.
 3. This test report is only valid when printed on KTR original report paper with hologram and when re-issued by KTR. The copy and the electronic file of the test report are only for reference.

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2020.05.14

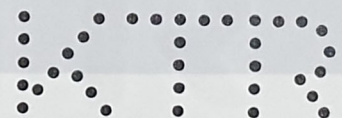
Korea Testing & Research Institute

President *Kwon Oh-jung*



QR Code for forgery

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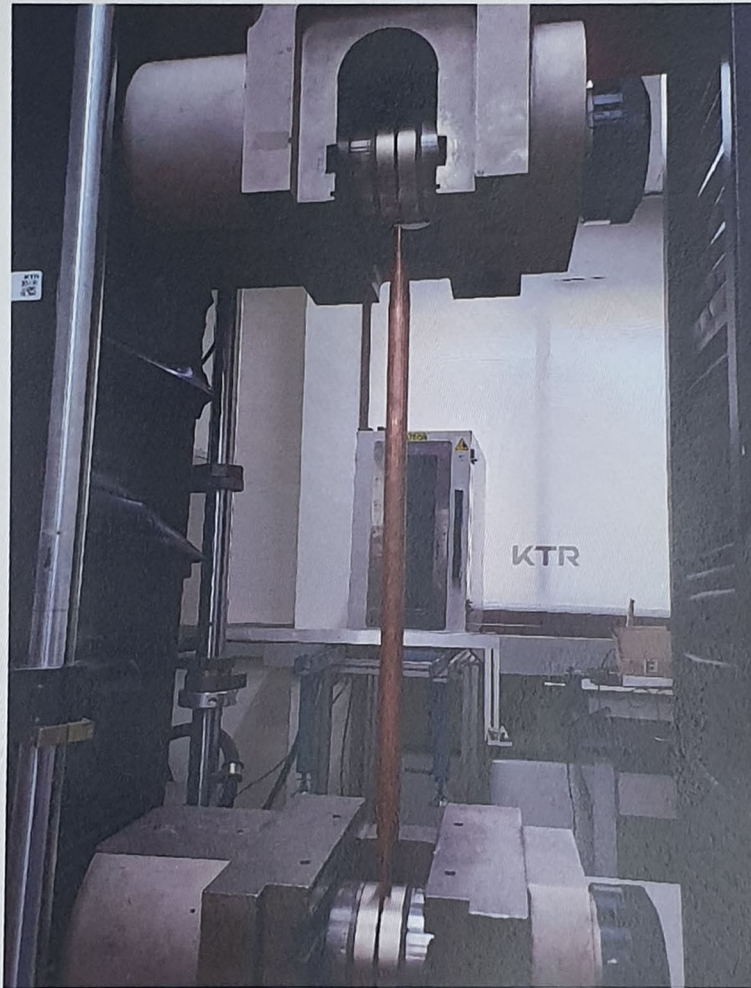
Test Completion Date : May.14.2020

Company name : Leader Energy

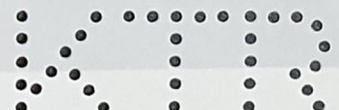
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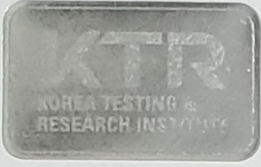
Sample name : HEAT PIPE

Sample Photo



Tensile load test





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Sample name : HEAT PIPE

Sample Photo



Compression load test

