

## TEST REPORT

No. : TJIN2008011278ML-01

Date : Oct 13, 2020

Page: 1 of 3



This Report supersedes the Report No. TJIN2008011278ML dated Aug 26, 2020 issued by SGS Tianjin Materials Lab.

CUSTOMER NAME: SHANDONG HENGSHENG PROTECTIVE PRODUCTS CO., LTD.  
ADDRESS: MIDDLE OF MINGJIA ROAD, QIHE COUNTY, DEZHOU CITY,  
SHANDONG PROVINCE, CHINA

Sample Name : Al profile  
Manufacturer : Shandong Hengsheng Protective Products Co., Ltd.  
Buyer : Jinan Hengsheng New Building Materials Co., Ltd  
Other Information : MODEL NO: handrail, wall guard, corner guard, Curtain Rail, IV Rail,  
IV Hanger, etc

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.

\*\*\*\*\*

SGS Ref. No. : TP20-005949  
Date of Receipt : Aug 18, 2020  
Testing Start Date : Aug 18, 2020  
Testing End Date : Aug 26, 2020  
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  
Services(Tianjin) Co., Ltd

Kevin Zhou  
Authorized signatory



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.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised 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 unlawful and offenders may be prosecuted to the fullest extent 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, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd  
Materials Laboratory

Building C-11, No.80, Haiyun Street, TEDA, Tianjin, China 300457 t (86-22) 5999 5008 f (86-22) 5999 5016 www.sgs.com.cn  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457 t (86-22) 5999 5008 f (86-22) 5999 5016 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# TEST REPORT

No. : TJIN2008011278ML-01

Date : Oct 13, 2020

Page: 2 of 3

## 1. Test Item: Chemical Composition Analysis

Test Method: OES

Element	Si	Fe	Cu	Mn	Mg
Result ,%	0.41	0.13	0.03	0.03	0.63

## 2. Test Item: Tensile Test

Test Method: GB/T 228.1-2010

Test item	Specimen type	Tensile strength ( $R_m$ ) (MPa)	Yield strength ( $R_{p0.2}$ ) (MPa)	Elongation after fracture(A) $L_0 = 80\text{mm}$ (%)
1	Rectangular specimen	243	222	10.5

Note: The distance between the fracture and the next gauge mark is less than  $L_0/3$ .

## 3. Test Item: Vickers Hardness Test

Test Standard: GB/T 4340.1-2009

Sample No.	Test Item	Test Position	Result		
1	HV 1	Near Surface	84.6	86.4	86.2



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.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised 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 unlawful and offenders may be prosecuted to the fullest extent 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, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

Building C-11, No.80, Haiyun Street, TEDA, Tianjin, China 300457 t (86-22) 5999 5008 f (86-22) 5999 5016 www.sgs.com.cn  
 中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457 t (86-22) 5999 5008 f (86-22) 5999 5016 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## TEST REPORT

No. : TJIN2008011278ML-01

Date : Oct 13, 2020

Page: 3 of 3



Sample photo

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

Unless otherwise stated, the results show in this test report refer only to sample(s) tested; test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc. and just for internal reference. Without written approval or consent of our company, the test result shall not be used for improper publicity.



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.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised 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 unlawful and offenders may be prosecuted to the fullest extent 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, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Inspection & Testing Services (天津) Co., Ltd.  
Materials Laboratory

Building C-11, No.80, Haiyun Street, TEDA, Tianjin, China 300457 t (86-22) 5999 5008 f (86-22) 5999 5016 www.sgsgroup.com.cn  
中国·天津·经济技术开发区海云街80号C-11厂房 邮编: 300457 t (86-22) 5999 5008 f (86-22) 5999 5016 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)