

Client's name : GOPCO VIETNAM JOINT STOCK COMPANY
Tên khách hàng : CÔNG TY CỔ PHẦN GOPCO VIỆT NAM

Client's address : NO. 1, LANE 31, LUONG NGOC QUYEN STREET, VAN QUAN WARD,
Địa chỉ : HA DONG DISTRICT, HA NOI CITY
 SỐ 1, NGÕ 31, PHỐ LƯƠNG NGỌC QUYÉN, PHƯỜNG VĂN QUÁN,
 QUẬN HÀ ĐÔNG, THÀNH PHỐ HÀ NỘI

The following sample(s) was/were submitted and identified by the client as:

Các thông tin nhận dạng mẫu do khách hàng cung cấp:

Name of sample / Tên mẫu : ALUMINIUM / NHÔM
 Rail pin GC-2650/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

Test method / Phương pháp thử : ASTM B557M - 15 Test Methods For Tension Testing
 Wrought And Cast Aluminum- And Magnesium-Alloy
 Products (Metric)
 ASTM E92 - 17 Standard Test Methods for Vickers
 Hardness and Knoop Hardness of Metallic Materials
 ASTM E1251 - 17a Standard Test Method for Analysis of
 Aluminum and Aluminum Alloys by Spark Atomic
 Emission Spectrometry

Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

(*) The test was accredited ISO 17025:2017 by VILAS / *Chỉ tiêu được công nhận ISO 17025:2017 bởi VILAS.*

ILAC : International Laboratory Accreditation / *Tổ chức hợp tác công nhận Phòng thử nghiệm quốc tế.*

MRA : Mutual Recognition Arrangement / *Thỏa ước thừa nhận lẫn nhau.*

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Signed for and on behalf of
SGS Vietnam LTD

Thay mặt công ty

 SGS Vietnam Ltd

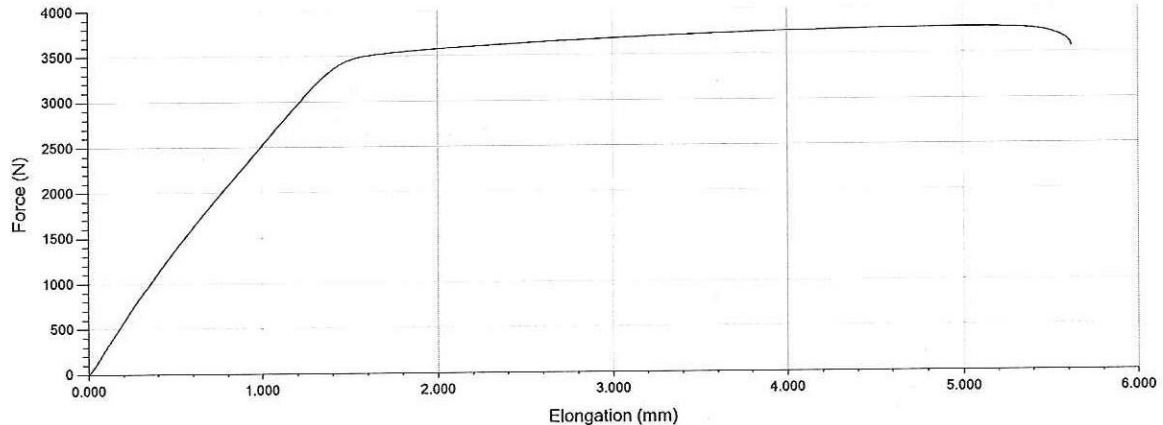
Le Tiep Du
 Lab Assistant Manager
 Industrial Services

082746
 372780

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Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
A. Tensile test (*) / Thử kéo		
• Width of specimen / Chiều rộng mẫu	mm	12.6
• Thickness of specimen / Chiều dày mẫu	mm	1.263
• Cross section area / Diện tích mặt cắt ngang	mm ²	15.91
• Yield load F _{p0.2} / Lực chảy quy ước	N	3500
• Yield strength R _{p0.2} / Giới hạn chảy quy ước	MPa	220
• Tensile load / Lực kéo đứt	N	3784
• Tensile strength / Giới hạn bền kéo	MPa	238
• Original gauge length / Chiều dài tính toán ban đầu	mm	50.0
• Gauge length after broken / Chiều dài tính toán sau khi đứt	mm	54.6
• Elongation / Độ giãn dài tương đối	%	9.2



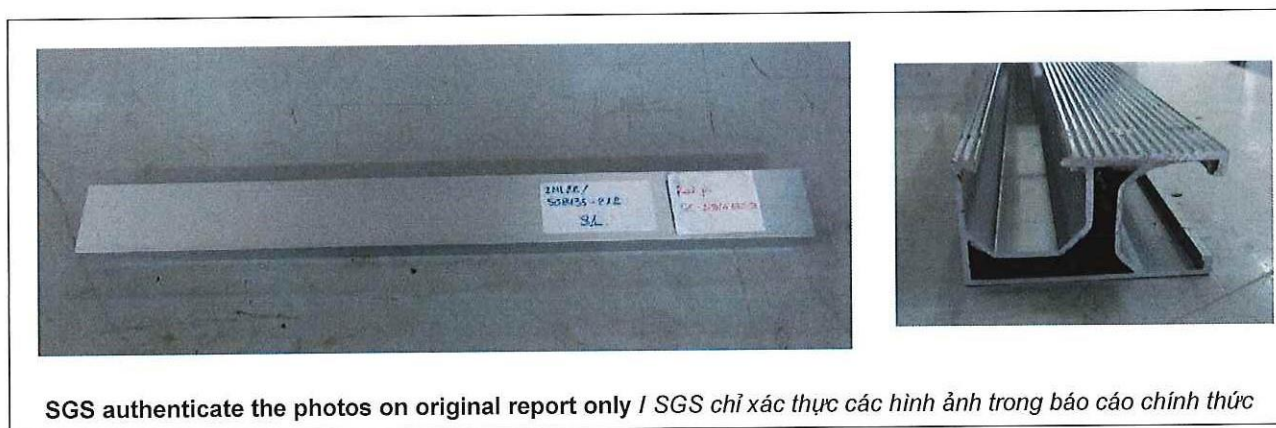
The relationship between tensile load and deformation
Biểu đồ tương quan giữa lực thử kéo và biến dạng

*** TO BE CONTINUED ***

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Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
B. Vickers hardness test (*) / Kiểm tra độ cứng Vickers	
• Average hardness / Độ cứng trung bình	89
C. Chemical composition (*) / Thành phần hóa học	
• Silicon content (Si) / Hàm lượng silic	0.508
• Iron content (Fe) / Hàm lượng sắt	0.280
• Copper content (Cu) / Hàm lượng đồng	0.0630
• Manganese content (Mn) / Hàm lượng mangan	0.0963
• Magnesium content (Mg) / Hàm lượng magie	0.516
• Chromium content (Cr) / Hàm lượng crom	0.0245
• Zinc content (Zn) / Hàm lượng kẽm	0.0712
• Titanium content (Ti) / Hàm lượng titan	0.0141
• Vanadium content (V) / Hàm lượng vanadi	0.0110
• Aluminium content (Al) / Hàm lượng nhôm	98.3

Photo of submitted sample / Hình ảnh mẫu nhân:



*** END OF THE REPORT ***

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Các thông tin nhận dạng mẫu do khách hàng cung cấp:

Name of sample / Tên mẫu : ALUMINIUM / NHÔM
 Kẹp giữa GC-U/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

Test method / Phương pháp thử : ASTM E92 - 17 Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials
 ASTM E1251 - 17a Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry

Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

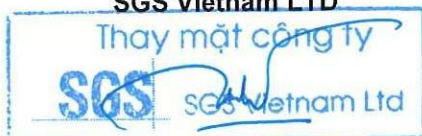
(*) The test was accredited ISO 17025:2017 by VILAS / Chỉ tiêu được công nhận ISO 17025:2017 bởi VILAS.

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Signed for and on behalf of
SGS Vietnam LTD

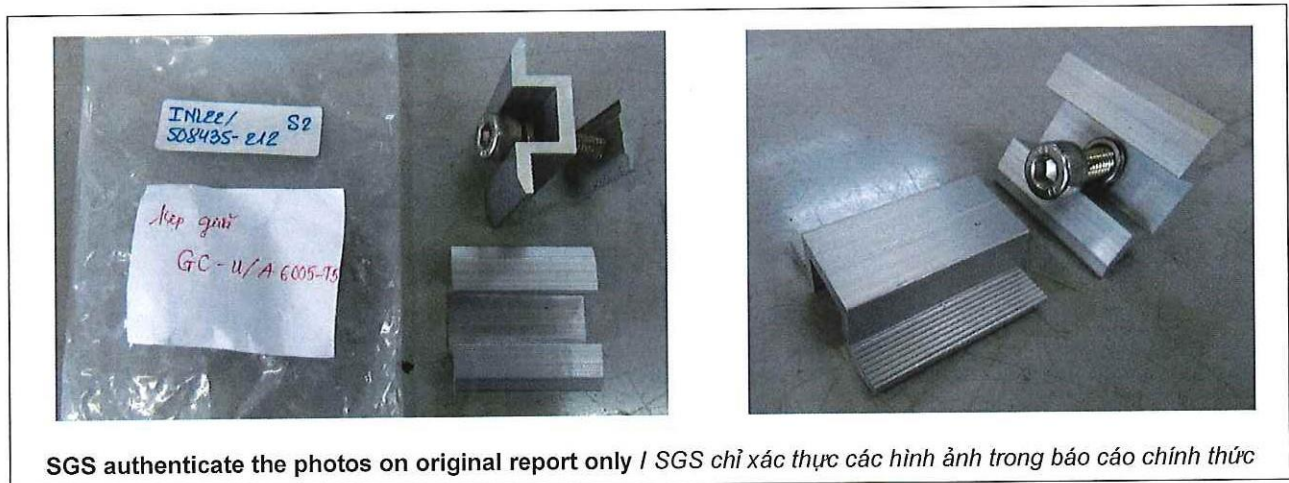


Le Tiej Du
 Lab Assistant Manager
 Industrial Services

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 674280
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Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
A. Vickers hardness test (*) / Kiểm tra độ cứng Vickers	
• Average hardness / Độ cứng trung bình	HV10 87
Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
B. Chemical composition (*) / Thành phần hóa học	
• Silicon content (Si) / Hàm lượng silic	% 0.502
• Iron content (Fe) / Hàm lượng sắt	% 0.282
• Copper content (Cu) / Hàm lượng đồng	% 0.0572
• Manganese content (Mn) / Hàm lượng mangan	% 0.0849
• Magnesium content (Mg) / Hàm lượng magie	% 0.509
• Chromium content (Cr) / Hàm lượng crom	% 0.0218
• Zinc content (Zn) / Hàm lượng kẽm	% 0.0695
• Titanium content (Ti) / Hàm lượng titan	% 0.0128
• Vanadium content (V) / Hàm lượng vanadi	% 0.0109
• Aluminium content (Al) / Hàm lượng nhôm	% 98.4

Photo of submitted sample / Hình ảnh mẫu nhân:



*** END OF THE REPORT ***

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Name of sample / Tên mẫu : ALUMINIUM / NHÔM
 Kẹp biên GC-Z/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

Test method / Phương pháp thử : ASTM E92 - 17 Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials
 ASTM E1251 - 17a Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry

Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

(*) The test was accredited ISO 17025:2017 by VILAS / *Chỉ tiêu được công nhận ISO 17025:2017 bởi VILAS.*

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Signed for and on behalf of
SGS Vietnam LTD



Le Tien Du
 Lab Assistant Manager
 Industrial Services

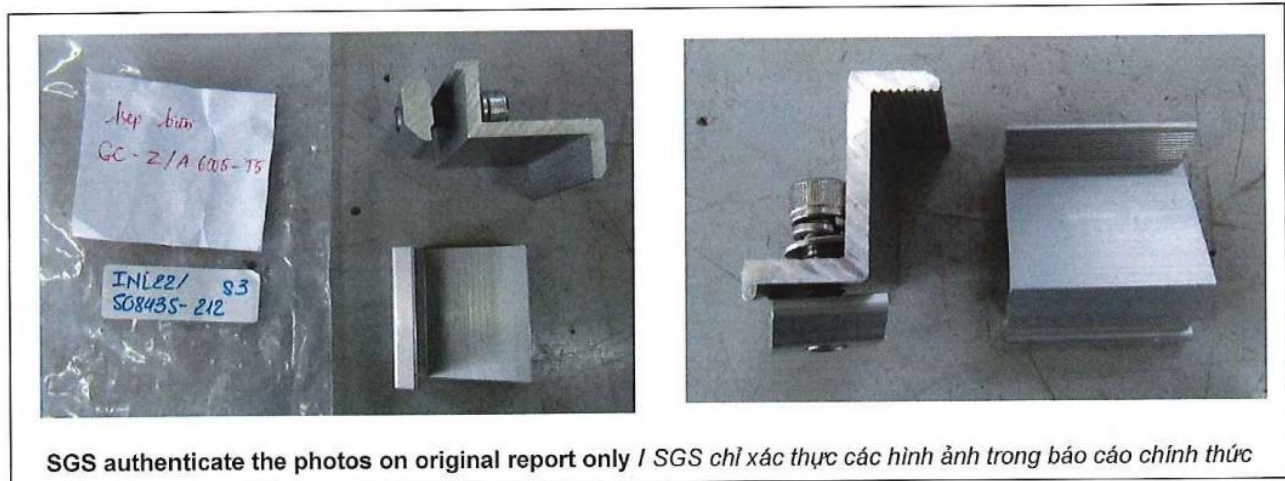
082751

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Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
A. Vickers hardness test ^(*) / Kiểm tra độ cứng Vickers		
• Average hardness / Độ cứng trung bình	HV10	86
Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
B. Chemical composition ^(*) / Thành phần hóa học		
• Silicon content (Si) / Hàm lượng silic	%	0.372
• Iron content (Fe) / Hàm lượng sắt	%	0.302
• Copper content (Cu) / Hàm lượng đồng	%	0.0619
• Manganese content (Mn) / Hàm lượng mangan	%	0.0611
• Magnesium content (Mg) / Hàm lượng magie	%	0.525
• Chromium content (Cr) / Hàm lượng crom	%	0.0227
• Zinc content (Zn) / Hàm lượng kẽm	%	0.122
• Titanium content (Ti) / Hàm lượng titan	%	0.0142
• Vanadium content (V) / Hàm lượng vanadi	%	0.0109
• Aluminium content (Al) / Hàm lượng nhôm	%	98.4

Photo of submitted sample / Hình ảnh mẫu nhận:



*** END OF THE REPORT ***

082752

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Các thông tin nhận dạng mẫu do khách hàng cung cấp:

Name of sample / Tên mẫu : ALUMINIUM / NHÔM
 Chân gá L 40x80/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

Test method / Phương pháp thử : ASTM E92 - 17 Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials
 ASTM E1251 - 17a Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry

Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

(*) The test was accredited ISO 17025:2017 by VILAS / *Chỉ tiêu được công nhận ISO 17025:2017 bởi VILAS.*

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Signed for and on behalf of
SGS Vietnam LTD

Thay mặt công ty



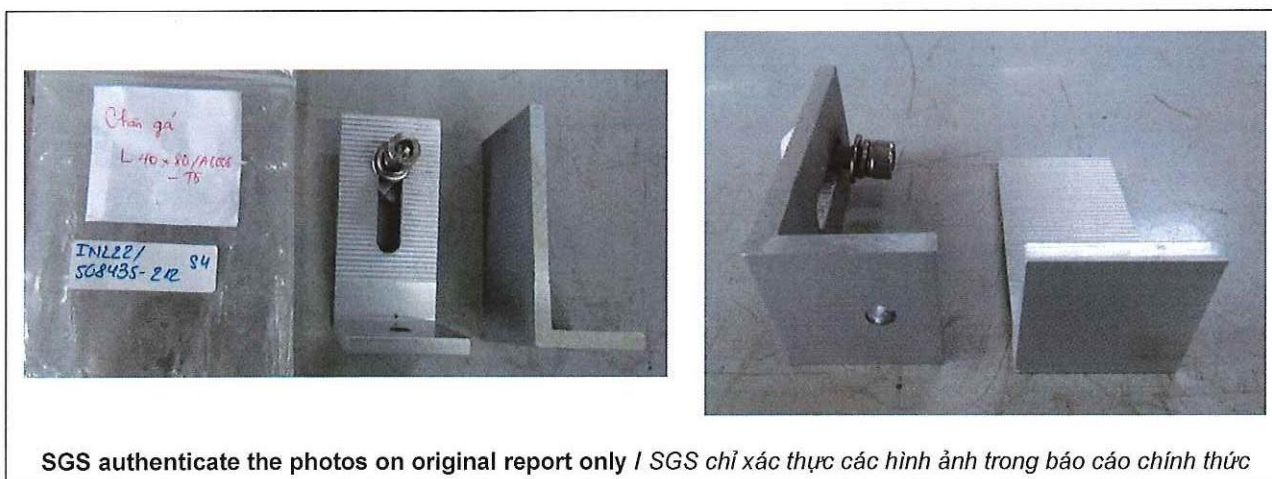
Le Tiej Du
 Lab Assistant Manager
 Industrial Services

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Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
A. Vickers hardness test (*) / Kiểm tra độ cứng Vickers		
• Average hardness / Độ cứng trung bình	HV10	90
Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
B. Chemical composition (*) / Thành phần hóa học		
• Silicon content (Si) / Hàm lượng silic	%	0.526
• Iron content (Fe) / Hàm lượng sắt	%	0.278
• Copper content (Cu) / Hàm lượng đồng	%	0.0475
• Manganese content (Mn) / Hàm lượng mangan	%	0.0452
• Magnesium content (Mg) / Hàm lượng magie	%	0.523
• Chromium content (Cr) / Hàm lượng crom	%	0.0178
• Zinc content (Zn) / Hàm lượng kẽm	%	0.0709
• Titanium content (Ti) / Hàm lượng titan	%	0.0150
• Vanadium content (V) / Hàm lượng vanadi	%	0.0096
• Aluminium content (Al) / Hàm lượng nhôm	%	98.4

Photo of submitted sample / Hình ảnh mẫu nhân:



SGS authenticate the photos on original report only / SGS chỉ xác thực các hình ảnh trong báo cáo chính thức

*** END OF THE REPORT ***

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Name of sample / Tên mẫu : ALUMINIUM / NHÔM
 Kẹp Seamlock 55/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

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Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

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Signed for and on behalf of
SGS Vietnam LTD



Le Tiej Du
 Lab Assistant Manager
 Industrial Services

082755

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Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
A. Vickers hardness test (*) / Kiểm tra độ cứng Vickers		
• Average hardness / Độ cứng trung bình	HV10	87
Characteristic / Tên chỉ tiêu		Test result Kết quả thử nghiệm
B. Chemical composition (*) / Thành phần hóa học		
• Silicon content (Si) / Hàm lượng silic	%	0.511
• Iron content (Fe) / Hàm lượng sắt	%	0.271
• Copper content (Cu) / Hàm lượng đồng	%	0.0471
• Manganese content (Mn) / Hàm lượng mangan	%	0.0456
• Magnesium content (Mg) / Hàm lượng magie	%	0.526
• Chromium content (Cr) / Hàm lượng crom	%	0.0181
• Zinc content (Zn) / Hàm lượng kẽm	%	0.0728
• Titanium content (Ti) / Hàm lượng titan	%	0.0172
• Vanadium content (V) / Hàm lượng vanadi	%	0.0098
• Aluminium content (Al) / Hàm lượng nhôm	%	98.4

Photo of submitted sample / Hình ảnh mẫu nhận:



*** END OF THE REPORT ***

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Client's name : GOPCO VIETNAM JOINT STOCK COMPANY
Tên khách hàng : CÔNG TY CỔ PHẦN GOPCO VIỆT NAM

Client's address : NO. 1, LANE 31, LUONG NGOC QUYEN STREET, VAN QUAN WARD,
Địa chỉ : HA DONG DISTRICT, HA NOI CITY
 SỐ 1, NGÕ 31, PHỐ LƯƠNG NGỌC QUYẾN, PHƯỜNG VĂN QUÁN,
 QUẬN HÀ ĐÔNG, THÀNH PHỐ HÀ NỘI

The following sample(s) was/were submitted and identified by the client as:

Các thông tin nhận dạng mẫu do khách hàng cung cấp:

Name of sample / Tên mẫu : ALUMINIUM / NHÔM
 Thanh nối Rail GC-140/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

Test method / Phương pháp thử : ASTM E92 - 17 Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials
 ASTM E1251 - 17a Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry

Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

(*) The test was accredited ISO 17025:2017 by VILAS / *Chỉ tiêu được công nhận ISO 17025:2017 bởi VILAS.*

ILAC : International Laboratory Accreditation / *Tổ chức hợp tác công nhận Phòng thử nghiệm quốc tế.*

MRA : Mutual Recognition Arrangement / *Thỏa ước thừa nhận lẫn nhau.*

ILAC-MRA-VILAS : VILAS is the full member and signatory of Mutual Recognition Arrangement with International Laboratory Accreditation / *VILAS là thành viên đầy đủ và ký thỏa ước thừa nhận lẫn nhau với tổ chức công nhận phòng thử nghiệm quốc tế.*

Signed for and on behalf of
SGS Vietnam LTD



Thay mặt công ty
 SGS Vietnam Ltd

Le Tien Du
 Lab Assistant Manager
 Industrial Services

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Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
A. Vickers hardness test (*) / Kiểm tra độ cứng Vickers	
• Average hardness / Độ cứng trung bình	HV10 85
Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
B. Chemical composition (*) / Thành phần hóa học	
• Silicon content (Si) / Hàm lượng silic	% 0.518
• Iron content (Fe) / Hàm lượng sắt	% 0.288
• Copper content (Cu) / Hàm lượng đồng	% 0.0640
• Manganese content (Mn) / Hàm lượng mangan	% 0.0970
• Magnesium content (Mg) / Hàm lượng magie	% 0.529
• Chromium content (Cr) / Hàm lượng crom	% 0.0245
• Zinc content (Zn) / Hàm lượng kẽm	% 0.0727
• Titanium content (Ti) / Hàm lượng titan	% 0.0141
• Vanadium content (V) / Hàm lượng vanadi	% 0.0109
• Aluminium content (Al) / Hàm lượng nhôm	% 98.3

Photo of submitted sample / Hình ảnh mẫu nhân:



*** END OF THE REPORT ***

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Client's name : GOPCO VIETNAM JOINT STOCK COMPANY
Tên khách hàng : CÔNG TY CỔ PHẦN GOPCO VIỆT NAM

Client's address : NO. 1, LANE 31, LUONG NGOC QUYEN STREET, VAN QUAN WARD,
Địa chỉ : HA DONG DISTRICT, HA NOI CITY
SỐ 1, NGÕ 31, PHỐ LƯƠNG NGỌC QUYÉN, PHƯỜNG VĂN QUÁN,
QUẬN HÀ ĐÔNG, THÀNH PHỐ HÀ NỘI

The following sample(s) was/were submitted and identified by the client as:

Các thông tin nhận dạng mẫu do khách hàng cung cấp:

Name of sample / Tên mẫu : ALUMINIUM / NHÔM
Kẹp tiếp địa GC-TD20/A6005-T5

Quantity / Số lượng mẫu : 01 sample / mẫu

Date of receiving / Ngày nhận mẫu : 19-Apr-2022

Date of testing / Ngày thử nghiệm : From / từ 19-Apr-2022 to / đến 26-Apr-2022

Test method / Phương pháp thử : ASTM E92 - 17 Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials
ASTM E1251 - 17a Standard Test Method for Analysis of Aluminum and Aluminum Alloys by Spark Atomic Emission Spectrometry

Test result / Kết quả thử nghiệm : See next page(s) / Xem trang sau

Note:

(*) The test was accredited ISO 17025:2017 by VILAS / *Chỉ tiêu được công nhận ISO 17025:2017 bởi VILAS.*

ILAC : International Laboratory Accreditation / *Tổ chức hợp tác công nhận Phòng thử nghiệm quốc tế.*

MRA : Mutual Recognition Arrangement / *Thỏa ước thừa nhận lẫn nhau.*

ILAC-MRA-VILAS : VILAS is the full member and signatory of Mutual Recognition Arrangement with International Laboratory Accreditation / *VILAS là thành viên đầy đủ và ký thỏa ước thừa nhận lẫn nhau với tổ chức công nhận phòng thử nghiệm quốc tế.*

Signed for and on behalf of
SGS Vietnam LTD



Le Tiep Du
Lab Assistant Manager
Industrial Services

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Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
A. Vickers hardness test (*) / Kiểm tra độ cứng Vickers	
• Average hardness / Độ cứng trung bình	HV10 84
Characteristic / Tên chỉ tiêu	Test result Kết quả thử nghiệm
B. Chemical composition (*) / Thành phần hóa học	
• Silicon content (Si) / Hàm lượng silic	% 0.400
• Iron content (Fe) / Hàm lượng sắt	% 0.154
• Copper content (Cu) / Hàm lượng đồng	% 0.0109
• Manganese content (Mn) / Hàm lượng mangan	% 0.0090
• Magnesium content (Mg) / Hàm lượng magie	% 0.521
• Chromium content (Cr) / Hàm lượng crom	% 0.0021
• Zinc content (Zn) / Hàm lượng kẽm	% 0.0131
• Titanium content (Ti) / Hàm lượng titan	% 0.0197
• Vanadium content (V) / Hàm lượng vanadi	% 0.0115
• Aluminium content (Al) / Hàm lượng nhôm	% 98.8

Photo of submitted sample / Hình ảnh mẫu nhận:



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