

Certificate of Accreditation



Element Materials Technology Aerospace UK Limited, Trading as Element Materials Technology

Testing Laboratory No. 0038

**Is accredited in accordance with International Standard ISO/IEC 17025:2017
– General Requirements for the competence of testing and calibration
laboratories.**

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements.

A handwritten signature in black ink, appearing to read "M Gantley", is positioned above a horizontal line.

Matt Gantley, *Chief Executive Officer*
United Kingdom Accreditation Service

Initial Accreditation: 11 May 1982
Certificate Issued: 25 January 2021



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verify



TEST REPORT

Client: Anhui HJ Tech Co. Ltd Anhui HJ Tech Co., Ltd #568 South Huizhou RD, Chuzhou City, Anhui Province, China Contact: Jason	ASAMS Contract No. ASAMS/0034672
	Date Received 22/03/2023
	Client Order No. Pro-forma
Job Description: 3mm Thick Plate For Testing (80x80mm Supplied) Material: Aluminium 5052 Product 1 FUTURAL also known as HJ TECH PVDF Pre-coated Solid Aluminium 5000 Series	
Specification: Not applicable	

CHEMICAL ANALYSIS

Chemical Analysis results attached in appendix to report.

Completed by Anya Reeves (Metallurgical Technician)
Verified by Anya Reeves (Metallurgical Technician)

Signed by T Whiskin (Metallurgist)
Report Date: 13 April 2023

ON BEHALF OF
ASAMS LIMITED

All the test results are enclosed in boxes. The results relate to items tested only. Test report shall not be reproduced except in full. Decision rule DR1 unless otherwise stated. Acceptance criteria taken directly from referenced specification. An un-constrained simple acceptance criteria has been applied. Further details at asams.co.uk/decision-rules

TEST CERTIFICATE

ASAMS LIMITED
 MARINE BUILDING
 OWEN ROAD
 HARFREYS INDUSTRIAL ESATE
 GREAT YARMOUTH, NORFOLK
 NR31 ONA
 Attn: RAHUL WADHER

REF No X 352019 : Issue 1
 Page 1 of 2
 Ord No ASAMS/0034672
 Date Tested 12/04/23
 Date Reported 12/04/23

Item - REF: 0034672
 1 OFF ALUMINIUM SAMPLE
 Grade - EN AW-5052, EN AW-AI Mg2.5
 Specification - BS EN 573-3 -2019

Chemical Analysis - ICP-OES													
	Al [%]	Cr [%]	Cu [%]	Fe [%]	Ga [%]	Mg [%]	Mn [%]	Ni [%]	OTH [%]	OTHE [%]	Si [%]	Comments	
001:	BASE	0.22	<0.01	0.24	0.01	2.2	0.02	0.01	<0.01	<0.01	0.08	Nil	
Sp Min	-	0.15	-	-		2.2	-		-	-	-		
Sp Max	Balance	0.35	0.10	0.40		2.8	0.10		0.15	0.05	0.25		
	Ti [%]	V [%]	Zn [%]										Comments
001:	0.03	0.02	<0.01										Nil
Sp Min			-										
Sp Max			0.10										
Chemical Analysis Test Methods: Al,Cr,Cu,Fe,Ga,Mg,Mn,Ni,OTH,OTHE,Si,Ti,V,Zn - ICP-OES. Inhouse Method TL CHEM03B													

Certificate Comments

OTH = The sum of those 'others' metallic elements 0.010% or more each.

The chemical analysis is carried out using an ICP programme containing the following elements:
 B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Si, Sn, Sr, Ti, V, Zn and Zr.

OTHE = The maximum individual result of the elements included in OTH.

The results reported above meet the chemical requirements of the specification.
 When Element is making statements of conformity the zero guard band decision rule has been applied. Uncertainty budgets have been determined and are available on the laboratory's website
<https://www.element.com/locations>.

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ASAMS LIMITED
MARINE BUILDING
REF: 0034672
1 OFF ALUMINIUM SAMPLEREF No
PageX 352019
2 of 2

: Issue 1

Tested by **ELEMENT CHEMISTRY**.....
EMMA STOWELL
CHEMISTRY MANAGER
For and on authority of
Element Materials Technology



TEST REPORT

Client: Anhui HJ Tech Co. Ltd Anhui HJ Tech Co., Ltd #568 South Huizhou RD, Chuzhou City, Anhui Province, China Contact: Jason	ASAMS Contract No. ASAMS/0034670
	Date Received 22/03/2023
	Client Order No. Pro-forma
Job Description: 3mm Thick Plate For Testing (80x80mm Supplied) Material: Aluminium 3003 Product 1 FUTURAL also known as HJ TECH PVDF Pre-coated Solid Aluminium 3000 Series	
Specification: Not applicable	

CHEMICAL ANALYSIS

Chemical Analysis results attached in appendix to report.

Completed by Anya Reeves (Metallurgical Technician)
Verified by Anya Reeves (Metallurgical Technician)

Signed by T Whiskin (Metallurgist)
Report Date: 13 April 2023

ON BEHALF OF
ASAMS LIMITED

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TEST CERTIFICATE

ASAMS LIMITED
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 GREAT YARMOUTH, NORFOLK
 NR31 ONA
 Attn: RAHUL WADHER

REF No X 352018 : Issue 1
 Page 1 of 2
 Ord No ASAMS/0034670
 Date Tested 12/04/23
 Date Reported 12/04/23

Item - REF: 0034670
 1 OFF ALUMINIUM SAMPLE
 Grade - EN AW-3003, EN AW-AI Mn1Cu
 Specification - BS EN 573-3 -2019

Chemical Analysis - ICP-OES													
	Al [%]	Cr [%]	Cu [%]	Fe [%]	Ga [%]	Mg [%]	Mn [%]	Ni [%]	OTH [%]	OTHE [%]	Si [%]	Comments	
001:	BASE	<0.01	0.08	0.5	0.01	<0.01	1.0	<0.01	<0.01	<0.01	0.1	Nil	
Sp Min	-		0.05	-			1.0		-	-	-		
Sp Max	Balance		0.20	0.7			1.5		0.15	0.05	0.6		
	Ti [%]	V [%]	Zn [%]										Comments
001:	0.03	0.02	<0.01										Nil
Sp Min			-										
Sp Max			0.10										
Chemical Analysis Test Methods: Al,Cr,Cu,Fe,Ga,Mg,Mn,Ni,OTH,OTHE,Si,Ti,V,Zn - ICP-OES. Inhouse Method TL CHEM03B													

Certificate Comments

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ASAMS LIMITED
MARINE BUILDING
REF: 0034670
1 OFF ALUMINIUM SAMPLEREF No
PageX 352018
2 of 2

: Issue 1

Tested by **ELEMENT CHEMISTRY**.....
EMMA STOWELL
CHEMISTRY MANAGER
For and on authority of
Element Materials Technology