Certificate of Accreditation

UKAS United Kingdom Accreditation Service

ASAMS Limited

Testing Laboratory No. 0935

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.

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

Initial Accreditation: 8 August 1989
Certificate Issued: 25 January 2024

ilac-MRA

UKAS United Kingdom Accreditation Service

Scan QR Code to verify

UKAS is appointed as the sole national accreditation body for the UK by The Accreditation Regulations 2009 (SI No 3155/2009) and operates under a Memorandum of Understanding (MoU) with the Department for Business and Trade (DBT).

TEST REPORT

Client:	FUTURAL (UK) Ltd 128 City Road London United Kingdom EC1V 2NX	**ASAMS Contract No.**	ASAMS/0034672
		Date Received	22/03/2023
		Client Order No.	Pro-forma
Contact:	Jason	Rev. 2 : Change to description	
Job Description:	3mm Thick Plate For Testing (80x80mm Supplied) Material: Aluminium 5052 Product 1 FUTURAL 5000 Series		
Specification:	Not applicable		

CHEMICAL ANALYSIS

Chemical Analysis results attached in appendix to report.

Completed by T Whiskin (Metallurgist)
Verified by A Page (Director)

ON BEHALF OF ASAMS LIMITED

Signed by T Whiskin (Metallurgist)
Report Date: 18 September 2024

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

All lab activities @ ASAMS Limited, Marine Building, Owen Road, Harfreys Industrial Estate, Great Yarmouth, Norfolk NR31 0NA, unless stated
Tel: +44 (0)1493 653535 Fax: +44 (0)1493 653254 Email: lab@asams.co.uk Website: www.asams.co.uk Info supplied by client ex. dimensions

Element Materials Technology
Holwick Road, Riverside Park
Middlesbrough, Teesside
TS2 1QS, UK

P: +44 (0) 1642 250 336
F: +44 (0) 1642 250 337
info.teesside@element.com
element.com

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-Al 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.

---------- End of Text ----------

UKAS TESTING
0038

Element Materials Technology
Holwick Road, Riverside Park
Middlesbrough, Teesside
TS2 1QS, UK

P: +44 (0) 1642 250 336
F: +44 (0) 1642 250 337
info.teesside@element.com
element.com

ASAMS LIMITED
MARINE BUILDING
REF: 0034672
1 OFF ALUMINIUM SAMPLE

Tested by **ELEMENT CHEMISTRY**

.....
EMMA STOWELL
CHEMISTRY MANAGER
For and on authority of
Element Materials Technology

UKAS TESTING
0038

TEST REPORT

Client:	FUTURAL (UK) Ltd 128 City Road London United Kingdom EC1V 2NX	**ASAMS Contract No.**	ASAMS/0034670
		Date Received	22/03/2023
		Client Order No.	Pro-forma
Contact:	Jason	Rev. 1 : Change to client and description	
Job Description:	3mm Thick Plate For Testing (80x80mm Supplied) Material: Aluminium 3003 Product 1 FUTURAL 3000 Series		
Specification:	Not applicable		

CHEMICAL ANALYSIS

Chemical Analysis results attached in appendix to report.

Completed by T Whiskin (Metallurgist)
Verified by A Page (Director)

ON BEHALF OF ASAMS LIMITED

Signed by T Whiskin (Metallurgist)
Report Date: 18 September 2024

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

All lab activities @ ASAMS Limited, Marine Building, Owen Road, Harfreys Industrial Estate, Great Yarmouth, Norfolk NR31 0NA, unless stated
Tel: +44 (0)1493 653535 Fax: +44 (0)1493 653254 Email: lab@asams.co.uk Website: www.asams.co.uk Info supplied by client ex. dimensions

Element Materials Technology
Holwick Road, Riverside Park
Middlesbrough, Teesside
TS2 1QS, UK

P: +44 (0) 1642 250 336
F: +44 (0) 1642 250 337
info.teesside@element.com
element.com

TEST CERTIFICATE

ASAMS LIMITED
MARINE BUILDING
OWEN ROAD
HARFREYS INDUSTRIAL ESATE
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-Al 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

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.

---------- End of Text ----------

UKAS TESTING
0038

Element Materials Technology
Holwick Road, Riverside Park
Middlesbrough, Teesside
TS2 1QS, UK

P: +44 (0) 1642 250 336
F: +44 (0) 1642 250 337
info.teesside@element.com
element.com

ASAMS LIMITED
MARINE BUILDING
REF: 0034670
1 OFF ALUMINIUM SAMPLE

Tested by **ELEMENT CHEMISTRY**

.....
EMMA STOWELL
CHEMISTRY MANAGER
For and on authority of
Element Materials Technology

UKAS TESTING
0038