SoA-L-9408 0000044652 Element Materials Technology Lab. MX Edit (3) (6)

Parent
SC-5507 0000044652 - Ele..

Approval QA > Scope of approval

Per Rehndell
Creator, Lead auditor

1/4

Scope of Approval - Lab

Supplier information

Supplier No	0000044652
Supplier Name	Element Materials Technology
Supplier address	Carr. Monterrey - Saltillo No 3279-
Post code	66367
City	SANTA CATARINA NL C.P
Province/State	
Country	MX
Alternative supplier address	No

Valid from 2025-10-31 **Valid until** 2026-11-30

Additional Information

The GKN Aerospace Sweden AB (GAS) system concerning GKN Aerospace Sweden AB designed products requires Method Approval from GAS for Laboratories performing material testing and/or testing to verify requirements per the method standard VOLS:10071573: Control of Materials and Methods.

All Laboratories must be listed in the database for Nadcap approvals or have an ISO 17025 approval for the scope, which is used on the GAS parts.

Ref. Standard VOLS:10071573: Control of Materials and Methods.

Based on this data and information we have discussed the potential risks and can recommend the supplier to work in accordance with scope stated in this approval (Nadcap codes, accreditations etc.) for GAS designed products controlled by specification VOLS:10071573: Control of Materials and Methods.

After review of Elements data and internal standards both by Skype meeting and by mail (during 2021)GAS opinion is that XA (Creep) will be in the scope ,as long as the testing are performed as showed in the internal standards,to the GAS Approval Scope for Element Materials Technology Monterrey

Elements internal standard for test of L8 Near Surface Examinations - Alpha Case: Wrought Titanium , fulfills requirements in according with GAS specification Vols:10066156 issue 1.
This after a review of Elements internal standard "ALPHA" iss.8 with the title "Alpha Case in Titanium".

Certificate

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	Phases	Certification	Certificate ID	Certification level	Certificate valid until	Valid until ▼	Scope
		ISO 17025	L2195.03	Certified	Valid until date	2027-02-26	
		Nadcap	MTL	Certified	Valid until date	2026-11-30	

Scope of approval for Lab

AC7101/2 – Chemical Analysis	G
AC7101/2 – Chemical Analysis (step 2)	G1 G2 G3 G4

Explanation from Nadcap Mtrl Handbook

D - Wet Chemistry
F - Atomic Emission Spectroscopy
G - Combustion or Fusion
S - X-Ray Fluorescence (XRF)
V - Mass Spectroscopy
W - Atomic Absorption

F1 - Direct Current plasma (DCP)
F2 - Inductively Coupled Plasma (ICP)
F3 - Spark/Arc (OES)
F4 - Glow Discharge (GD)
F5 - High Temperature Hollow Cathode

	G5	F5 - High Temperature Hollow Cathode G1 - Carbon G2 - Hydrogen G3 - Nitrogen G4 - Oxygen G5 - Sulfur W1 - Flame (AAS) W2 - Graphite Furnace (GFAA) Every 2 Year
Material group	Fe Ti	Al Base Co Base Cu Base Fe Base Mg Base Ni Base Ti Base Zn Base
AC7101/3 – Mechanical Testing	A B C N XA	A - Room Temperature Tensile B - Elevated Temperature Tensile C - Stress Rupture Every **XA - Creep*** CT - Compression Testing KR - Curve (Resistance to Fracture) N - Impact Testing **O - High Cycle Fatigue*** **P - Fracture Toughness*** **Y - Low Cycle Fatigue*** **XE - Crack Propagation/Crack Growth Testing*** XN - Bend Testing *** see OMS for specific requirements**
AC7101/4 – Metallography and Microindentation Hardness	L0 L11 L12 L13 L2 L7 L8 VOLS:10066156 XL	L0 - Metallographic evaluation L1 - Microindentation Hardness L2 - Alloy Depletion L3 - Oxidation/Corrosion Layers L4 - Casting (Mold) Reactions L5 - Microindentation (Surface-case depth) L5X - Microindentation (Surface) (ARP1820) L6 - Nitriding L7 - IGA / IGO **L8 - Alpha Case: Wrought*** **L9 - Alpha Case: Castings*** L10 - Carburization/Decarburization L11 - Grain Size Measurement L12 - Inclusion Rating L13 - Replication **VOLS:10066156 Microstructural examination of alpha case on titanium*** XL - Macro Examination *** see OMS for specific requirements**
AC7110/13 - Evaluation of weld joints and torch & induction braze joints		**Metallographic – Weld Joints** Supplement A - Metallographic Evaluation of Welder/Welding Operator Qualification Welds Supplement B - Metallographic Evaluation of Fusion Welds Supplement C - Metallographic Evaluation of Electron Beam/Laser Welds Supplement D - Metallographic Evaluation of Resistance Welds **Bend Test– Weld Joints** Supplement E - Bend Test Evaluation of Welder/Welding Operator Qualification Welds Supplement E - Bend Test Evaluation of Fusion Welds (for other testing purposes) Supplement E - Bend Test Evaluation of Electron Beam and Laser (for other testing purposes) **Metallographic – Torch & Induction Braze Joints** Supplement F - Metallographic Evaluation of Qualification and/or Process Control Braze Joints **Welding captive lab thru AC7110** Metallographic Evaluation of Qualification Welds (under the scope of Nadcap AC7110 WLD)
AC7101/5 – Hardness (Macro)	M1 M2	M1 - Hardness (Brinell) M2 - Hardness (Rockwell) M3 - Hardness (Vickers) M4 - Electrical Conductivity Inspection
AC7101/7 - Mechanical Test Specimen Preperation	Z	Z - GENERAL REQUIREMENTS (Apply to all specimen preparation sources.) Z1 - Low stress grinding **Z2 - Low stress grinding and polishing*** Z3 - Cast specimens Z4 - Special purpose specimens *** see OMS for specific requirements**

AC7101/9 – Specimen Heat Treating	XG	XG - Test Specimen Response/Capability To Heat Treat
AC7101/6 - Corrosion		Q - Corrosion ASTM B117, ISO 9227 Q1 - Stress Corrosion ASTM Volume 3.02 Q1-1 - Oxalic Acid Etch Test, ASTM A262 Practice A Q1-2 - Ferric Sulfate–Sulfuric Acid Test "Streicher test" (mass loss), ASTM A262 Practice B Q1-3 - Nitric Acid Test "Huey test" (mass loss), ASTM A262 Practice C and ISO 3651-1 Q1-4A - Copper–Copper Sulfate–16% Sulfuric Acid Test "Strauss test" (bend test), ASTM A262 Practice E and ISO 3651-2 Method A Q1-4B - 35% sulfuric acid/copper sulfate test (bend test), ISO 3651-2 Method B Q1-4C - 40% sulfuric acid/ferric sulfate test (bend test) Q1-5 - Copper–Copper Sulfate–50 % Sulfuric Acid Test (mass loss) Q2 - Alternate immersion stress corrosion testing Q2-1 - Tension stress corrosion testing Q2-2 - Bent beam stress corrosion testing Q2-3 - C-ring stress corrosion testing Q2-4 - T-bend strss corrosion testing Q3 - Exfoliation corrosion
AC7101/14 - Proficiency Testing and Internal Round Robin	Yes	Nadcap Audit Criteria for Materials Testing Laboratories – Proficiency Testing and Internal Round Robin Requirements for ALL Laboratories

Statement

Approval area	Publish on Supplier portal	**Type of approval**	Approved
Exceptions/ Restrictions	No	**Exceptions/ Restrictions**	
Lead auditor	Per Rehndell	**Issue date**	2025-10-29
Engineering manager (lab)	Sven Johansson	**Checked date**	2025-10-29
Approved by Quality Manager audit	Ida Siggelkow	**Approved date**	2025-10-30
Reason for closing approval *)		**Planned lead auditor**	
Notes & Disqualification statement *)			

Add new approval based on this approval

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Phases ▲	ID	Approval type	Restrictions?	Valid from	Valid until ▼	Approval area	Reason for closing approval	Closed ▼	Alarm status

No records to display.

Files

Filename	Changed by	Changed
AS9100 Cert Element Monterrey MX.pdf	Per Rehndell	2025-10-14 11:39 AM
ElementMaterialsTechMonterreyCertScopeV010.pdf	Per Rehndell	2025-10-14 11:42 AM
Nadcap Cert Element Monterrey MX.pdf	Per Rehndell	2025-10-14 11:40 AM