

Parent

SC-5507 0000044652 - Ele..



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
①	②	③	ISO 17025	L2195.03	Certified	Valid until date	2027-02-26
①	②	③	Nadcap	MTL	Certified	Valid until date	2026-11-30

Scope of approval for Lab

AC7101/2 – Chemical Analysis G



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

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

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

F5 - High Temperature Muffle Furnace
 G1 - Carbon
 G2 - Hydrogen
 G3 - Nitrogen
 G4 - Oxygen
 G5 - Sulfur
 W1 - Flame (AAS)
 W2 - Graphite Furnace (GFAA) Every 2 Year

Material group	Fe	Al Base
	Ti	Co Base
		Cu Base
		Fe Base
		Mg Base
		Ni Base
		Ti Base
		Zn Base

AC7101/3 – Mechanical Testing	A	A - Room Temperature Tensile
	B	B - Elevated Temperature Tensile
	C	C - Stress Rupture Every
	N	XA - Creep*
	XA	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	L0 - Metallographic evaluation
	L11	L1 - Microindentation Hardness
	L12	L2 - Alloy Depletion
	L13	L3 - Oxidation/Corrosion Layers
	L2	L4 - Casting (Mold) Reactions
	L7	L5 - Microindentation (Surface-case depth)
	L8	L5X - Microindentation (Surface) (ARP1820)
	VOLS:10066156	L6 - Nitriding
	XL	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 - Hardness (Brinell)

M2 - Hardness (Rockwell)

M3 - Hardness (Vickers)

M4 - Electrical Conductivity Inspection

AC7101/7 - Mechanical Test Specimen Preparation

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

AC7101/6 - 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 stress 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