

# Audit AU2016302

931501 Element Teesside (LAB)

**Audit type:** System / External Lab  
**Audit trigger:** Follow up  
**Unplanned:**  
  
**Status:** Signature Provided  
**Planned date:** 2023.09.01 00:00 to 2023.09.01 00:00  
  
**Date:** 2023.09.01 00:00 to 2023.09.01 00:00

## Audit result

**Rating:** Approved/Godkänd

This Document contains no Technical data

## Persons involved

Role	Description
Lead Auditor	Per Rehdell
Approver	Stefan Abrahamsson
Engineering	Sven Johansson

## Audit Report

### Background

The system concerning GKN Aerospace, Sweden (GAS) designed products requires Method Approval from GAS for laboratories performing material testing 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 ISO17025 approval for the scope which is used on the GAS parts.

Time :The audit has been performed 2023-09-01

GKN Aerospace Auditor

~~Purchasing~~

Engineering

GKN Aerospace Quality Manager

Audit AU2016302 931501 Element Teesside (LAB)

Address:

Element Materials Technology Teesside  
Holwick Road , Middlesbrough TS2 1QS  
United Kingdom.

Lead Auditor : Per Rehndell

This audit is an approval based on certification.

Audited requirements: Standard VOLS:10071573: Control of Materials and Methods

The MTL Nadcap Approval expires: 2023-11-30

## Non Conformance

### Conclusion

ISO 17025 and Nadcap approvals for Element Materials Technology Teesside has been reviewed. Element Materials Technology Teesside is approved for work in below processes on GKN designed products controlled by GKN specification VOLS:10071573 (Control of Materials and Methods).

**ATT:** GAS opinion is that some testing must be omitted from the GAS approval (even though included in the Nadcap scope), based upon that no GAS On Site audit has been done which is required for certain Codes (approvals).

**Omitted are: L8 & L9**

Scope of approval - Materials Testing (MTL)

Mechanical Testing : XN, A, B, N

Mechanic. Test. Specimen prep. : Z , Z3, Z4

Heat Treating : Specimen Heat Treating

Chemistry : F, F2, F3, S, G,G1, G2, G3, G4,G5  
Ti Base, Fe Base, Ni Base, Co Base, Al base

Hardness testing : M1, M2, M3

Metallography and Microhardness  
L0, L1, L2, L5, L7, XL, L10, L11, L12, L13

Corrosion testing : Q1, Q1-1 , Q1-4A

Evaluation of welds:

Suppl. A, Metallurgical evaluation of welder/welding operator qualification

Suppl. B, Metallurgical evaluation of fusion welds

Supplement C Metallurgical Evaluation of electron beam/laser welds

Supplement D Metallurgical Evaluation of resistance welds

Suppl. E, Bend test of welder/welding operator qualification

Suppl. E, Bend test evaluation of fusion welds

Based on this data and information we have discussed the potential risks and can recommend Element Materials Technology Teesside as an Approved Supplier / Lab. to GKN Aerospace Sweden to 2024-03-29 in above defined Scope.