AIRBUS

ELEMENT MATERIALS TECHNOLOGY

14805 YORKTOWN PLAZA DRIVE

77040, HOUSTON

US

321693

TYPE of External Shop

INDEPENDENT

Attestation letter for Qualification on Test Methods

Dear Madam, Dear Sir,

We herewith inform that the couples as detailed in the Appendix have been either registered or modified in the Official Airbus Qualified Test Methods List (QTML).

The latest valid status of all qualified couples is published by regular QTML reports :

- On Airbus homepage for Suppliers (https://www.airbus.com/be-an-airbus-supplier.html)- Only Independent Labs.
- On Airbus Supply Portal - All External Test Facilities.

A qualified couple is not linked to a specific product. It is the evidence that the External Test Facility is meeting the requirement of the M20691.2: Perform Couple Compliance and Maturity's Activities for Material Products Suppliers and/or M20691.3: Perform Couple Compliance and Maturity's Activities for Aerostructure Parts Suppliers.

- We ask you to inform AIRBUS about any modification which could affect the current qualification(s).

Airbus reserves the right to withdraw or suspend the qualification at any time for specific reason, e.g.

- Any major incident(s) detected on one or several Test processes
- Lack in quality, including the surveillance activities (PTP results, Nadcap accreditation, etc)
- Evidence Of non-compliance with the M20691.2 and/or M20691.3
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,
The Test Method Central Team

Appendix: Matrix of qualified Couples <Test Methods/ Shop>

* Next PTP participation year is given for information - It is the External Shop's responsibility to check every year on the PTP Website which kits are proposed.

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Airbus SAS
Société par actions simplifiée au capital de 2.704.375 Euros
RCS Toulouse 383 474 81

Registered office:
1, rond-point Maurice Bellonte
31700 Blagnac, France

Attestation Issuance Date: 21/08/2025

AIRBUS

EX-SITU

Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for

ELEMENT MATERIALS TECHNOLOGY - (321693)

Test Standard(s)	Test label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparision test Participation.*	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	GRAIN SIZE	LOW	QUALIFIED		2025			
ASTME1447	STANDARD TEST METHOD FOR DETERMINATION OF HYDROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION THERMAL CONDUCTIVITY/ INFRARED DETECTION METHOD	HYDROGEN CONTENT	LOW	QUALIFIED		2025			12/07/2023
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	MANUFACTURING	LOW	QUALIFIED					
ASTME340	STANDARD PRACTICE FOR MACROETCHING METALS AND ALLOYS	MICROSCOPY	LOW	QUALIFIED					11/04/2023
EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	TENSILE	LOW	QUALIFIED WITH LIMITATIONS	LIMITATION 1: WITHOUT YOUNG'S MODULUS LIMITATION 2: INTERCHANGEABILITY PER ICY-CS-19772 NOTE- 2 WAYS WITH ASTM E2002-1 / ASTMB557	2025			
EN2003-10	AEROSPACE SERIES - TITANIUM AND TITANIUM ALLOYS - TEST METHODS - PART 010: SAMPLING FOR DETERMINATION OF HYDROGEN CONTENT	MANUFACTURING	LOW	QUALIFIED		2025			

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EN2003-9	AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION	MICROSCOPY	LOW	QUALIFIED WITH LIMITATIONS	METHOD A ONLY	2025			
EN3114-001	TEST METHOD - MICROSTRUCTURE OF (ALPHA + BÉTA) TITANIUM ALLOY WROUGHT PRODUCTS - PART 1 : GENERAL REQUIREMENTS	MICROSCOPY	LOW	QUALIFIED					
EN3976	AEROSPACE SERIES - TITANIUM AND TITANIUM ALLOYS - TEST METHOD - CHEMICAL ANALYSIS FOR THE DETERMINATION OF HYDROGEN CONTENT	HYDROGEN CONTENT	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER 21681-ICY-CS NOTE- 2 WAYS WITH CONDITIONS WITH ASTME1447. EN 3976 HAS BEEN ESTABLISHED AS THE MASTER TEST METHOD FOR CHEMICAL ANALYSIS FOR THE DETERMINATION OF HYDROGEN CONTENT AND ASTM E 1447 HAS BEEN ESTABLISHED AS TWO WAY INTERCHANGEABLE WITH CONDITIONS WITH THE MASTER TEST METHOD FOR THE FOLLOWING MODES: - EXTRACTION MODE WITH FLUX AT 1800ºC WITH NITROGEN OR ARGON SUPPORTING GAS. - EXTRACTION MODE WITHOUT FLUX AT 2100ºC WITH ARGON SUPPORTING GAS. 1. SAMPLE LOCATION ACCORDING TO EN 3976 6.2.1 SHALL APPLY. 2. SAMPLING IN THE FORM OF CHIPS SHALL BE AVOIDED DUE TO THE RISK OF HEATING THE SAMPLE FOR ANALYSIS. 3. ALTERNATIVE CLEANING PROCESS FOR SEMI-FINISHED PRODUCTS SHALL BE APPLIED AS DESCRIBED IN EN 3976 (6.2.2)	2025			03/04/2023

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Test Standard(s)	Test Label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparision test Participation.*	Facility	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
EN3114	AEROSPACE SERIES - MICROSTRUCTURE OF (A+ß) TITANIUM ALLOYS WROUGHT PRODUCTS - PART 1, 2, 3 AND 4	MICROSCOPY	NA	WITHDRAWN						16/04/2025

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