

ELEMENT MATERIALS TECHNOLOGY

CHARLOTTE

1200A WESTINGHOUSE BLVD.

28273, CHARLOTTE

US

310769

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>

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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

Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for ELEMENT MATERIALS TECHNOLOGY - (310769)

Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
AITM4-0002	MICROSTRUCTURAL CHARACTERIZATION OF WELDED ALUMINIUM STRUCTURES	LOW	QUALIFIED					
ASTMA604	STANDARD PRACTICE FOR MACROETCH TESTING OF CONSUMABLE ELECTRODE REMELTED STEEL BARS AND BILLETS	LOW	QUALIFIED					
ASTME10	STANDARD TEST METHOD FOR BRINELL HARDNESS OF METALLIC MATERIALS	LOW	QUALIFIED		2025			24/10/2022
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	LOW	QUALIFIED		2025			
ASTME139	STANDARD TEST METHODS FOR CONDUCTING CREEP CREEP-RUPTURE AND STRESS-RUPTURE TESTS OF METALLIC MATERIALS	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	LOW	QUALIFIED		2024			24/10/2022

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Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTME18	STANDARD TEST METHODS FOR ROCKWELL HARDNESS OF METALLIC MATERIALS	LOW	QUALIFIED WITH LIMITATIONS	HRC ONLY	2025			
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	LOW	QUALIFIED					
ASTME340	TEST METHODE FOR MACROETCHING OF METALS AND ALLOYS	LOW	QUALIFIED					
ASTME384	TEST METHODE FOR MICROHARDNESS OF MATERIALS	LOW	QUALIFIED		2024			
ASTME407	TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS	LOW	QUALIFIED					
ASTME45	STANDARD TEST METHODS FOR DETERMINING THE INCLUSION CONTENT OF STEEL	LOW	QUALIFIED		2025			

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EN2002-6	METALLIC MATERIALS: BEND TESTING	LOW	QUALIFIED					
EN3114	AEROSPACE SERIES - MICROSTRUCTURE OF (A+β) TITANIUM ALLOYS WROUGHT PRODUCTS - PART 1 2 3 AND 4	LOW	QUALIFIED					
EN3683	AEROSPACE SERIES - TEST METHODS - TITANIUM ALLOY WROUGHT PRODUCTS - DETERMINATION OF PRIMARY α CONTENT - POINT COUNT METHOD AND LINE INTERCEPT METHOD	LOW	QUALIFIED					
EN3684	AEROSPACE SERIES - TEST METHODS - TITANIUM ALLOYS WROUGHT PRODUCTS - DETERMINATION OF β TRANSUS TEMPERATURE - METALLOGRAPHIC METHOD	LOW	QUALIFIED					
ISO148-1	METALLIC MATERIAL - CHARPY PENDULUM IMPACT TEST	LOW	QUALIFIED		2025			
ISO4516	METALLIC AND OTHER INORGANIC COATINGS - VICKERS AND KNOOP MICROHARDNESS TESTS	LOW	QUALIFIED					

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Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
NASM1312-12	FASTENER TEST METHODS THICKNESS OF METALLIC COATINGS	LOW	QUALIFIED					
NASM1312-6	FASTENER TEST METHODS HARDNESS	LOW	QUALIFIED					
QVA-Z10-53-00	METALLOGRAPHIC TEST MACROSCOPIC EXAMINATION GENERAL INFORMATION	LOW	QUALIFIED					
SAEAMS2315	DETERMINATION OF DELTA FERRITE CONTENT	LOW	QUALIFIED					

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Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTME1409	STANDARD TEST METHOD FOR DETERMINATION OF OXYGEN AND NITROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION TECHNIQUE	LOW	SUSPENDED		2020			

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