

ELEMENT MATERIALS TECHNOLOGY

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>

* 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:
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31700 Blagnac, France

EX-SITU

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

| Test Standard(s) | Test label | Surveillance Sub Family | 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 | MICROSCOPY | LOW | QUALIFIED | | | | | |
| ASTMA604 | STANDARD PRACTICE FOR MACROETCH TESTING OF CONSUMABLE ELECTRODE REMELTED STEEL BARS AND BILLETS | MICROSCOPY | LOW | QUALIFIED | | | | | |
| ASTME10 | STANDARD TEST METHOD FOR BRINELL HARDNESS OF METALLIC MATERIALS | HARDNESS | LOW | QUALIFIED | | 2025 | | | 24/10/2022 |
| ASTME112 | STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE | GRAIN SIZE | LOW | QUALIFIED | | 2026 | | | |
| ASTME139 | STANDARD TEST METHODS FOR CONDUCTING CREEP, CREEP-RUPTURE AND STRESS-RUPTURE TESTS OF METALLIC MATERIALS | CREEP | LOW | QUALIFIED | | 2025 | | | |
| ASTME1409 | STANDARD TEST METHOD FOR DETERMINATION OF OXYGEN AND NITROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION TECHNIQUE | SPECTROSCOPY | LOW | AUTHORISED TO PROCEED-31/08/2025 | | 2025 | | | 14/03/2025 |

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|------------------|--|-------------------------|------------|----------------------|------------|---|-----------------------------------|---------------------|--------------------------------|
| 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 | | 2024 | | | 24/10/2022 |
| ASTME18 | STANDARD TEST METHODS FOR ROCKWELL HARDNESS OF METALLIC MATERIALS | HARDNESS | LOW | QUALIFIED | | 2026 | | | 21/02/2025 |
| ASTME21 | STANDARD TEST METHODS FOR ELEVATED TEMPERATURE TENSION TESTS OF METALLIC MATERIALS | TENSILE | LOW | QUALIFIED | | 2026 | | | 14/03/2025 |
| ASTME3 | STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS | MANUFACTURING | LOW | QUALIFIED | | | | | |
| ASTME340 | STANDARD PRACTICE FOR MACROETCHING METALS AND ALLOYS | MICROSCOPY | LOW | QUALIFIED | | | | | |
| ASTME384 | TEST METHODE FOR MICROHARDNESS OF MATERIALS | HARDNESS | LOW | QUALIFIED | | 2024 | | | |

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|------------------|--|-------------------------|------------|----------------------------------|------------|---|-----------------------------------|---------------------|--------------------------------|
| ASTME407 | TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS | MICROSCOPY | LOW | QUALIFIED | | | | | |
| ASTME45 | STANDARD TEST METHODS FOR DETERMINING THE INCLUSION CONTENT OF STEEL | INCLUSION | LOW | QUALIFIED | | 2025 | | | |
| ASTME8 | STANDARD TEST METHODS FOR TENSION TESTING OF METALLIC MATERIALS | TENSILE | LOW | QUALIFIED | | 2026 | | | 14/03/2025 |
| EN2002-1 | TENSILE TESTING AT AMBIENT TEMPERATURE | TENSILE | LOW | QUALIFIED | | 2026 | | | 14/03/2025 |
| EN2002-2 | TENSILE TESTING AT ELEVATED TEMPERATURE | TENSILE | LOW | AUTHORISED TO PROCEED-31/08/2025 | | 2026 | | | 21/02/2025 |
| EN2002-6 | METALLIC MATERIALS: BEND TESTING | FLEXURE | LOW | QUALIFIED | | | | | |

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|------------------|---|-------------------------|------------|----------------------|------------|---|-----------------------------------|---------------------|--------------------------------|
| EN3114 | AEROSPACE SERIES - MICROSTRUCTURE OF (A +δ) TITANIUM ALLOYS WROUGHT PRODUCTS - PART 1, 2, 3 AND 4 | MICROSCOPY | NA | QUALIFIED | | | | | 21/01/2025 |
| EN3683 | AEROSPACE SERIES - TEST METHODS - TITANIUM ALLOY WROUGHT PRODUCTS - DETERMINATION OF PRIMARY A CONTENT - POINT COUNT METHOD AND LINE INTERCEPT METHOD | MICROSCOPY | LOW | QUALIFIED | | | | | |
| EN3684 | AEROSPACE SERIES - TEST METHODS - TITANIUM ALLOYS WROUGHT PRODUCTS - DETERMINATION OF TRANSUS TEMPERATURE - METALLOGRAPHIC METHOD | MICROSCOPY | LOW | QUALIFIED | | | | | |
| ISO148-1 | METALLIC MATERIAL - CHARPY PENDULUM IMPACT TEST | IMPACT | LOW | QUALIFIED | | 2025 | | | |
| ISO4516 | METALLIC AND OTHER INORGANIC COATINGS - VICKERS AND KNOOP MICROHARDNESS TESTS | HARDNESS | LOW | QUALIFIED | | | | | |
| NASM1312-12 | FASTENER TEST METHODS, THICKNESS OF METALLIC COATINGS | THICKNESS | LOW | QUALIFIED | | | | | |

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| NASM1312-6 | FASTENER TEST METHODS, HARDNESS | HARDNESS | LOW | QUALIFIED | | | | | |
| QVA-Z10-53-00 | METALLOGRAPHIC TEST, MACROSCOPIC EXAMINATION, GENERAL INFORMATION | MICROSCOPY | LOW | QUALIFIED | | | | | |
| SAEAMS2315 | DETERMINATION OF DELTA FERRITE CONTENT | MICROSCOPY | LOW | QUALIFIED | | | | | |

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