

ELEMENT MATERIALS TECHNOLOGY

HUNTINGTON BEACH BRANCH

15062 BOLSA CHICA STREET

92649, HUNTINGTON

US

309680

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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31700 Blagnac, France

Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for ELEMENT MATERIALS TECHNOLOGY - (309680)

| 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 | | | | | |
| ASTMA262 | STANDARD PRACTICES FOR DETECTING SUSCEPTIBILITY TO INTERGRANULAR ATTACK IN AUSTENITIC STAINLESS STEELS | LOW | QUALIFIED | | | | | |
| ASTMA604 | STANDARD PRACTICE FOR MACROETCH TESTING OF CONSUMABLE ELECTRODE REMELTED STEEL BARS AND BILLETS | LOW | QUALIFIED | | | | | |
| ASTMB117 | STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS | LOW | QUALIFIED | | 2024 | | | 09/11/2022 |
| ASTMB769 | STANDARD TEST METHOD FOR SHEAR TESTING OF ALUMINIUM ALLOYS | LOW | QUALIFIED | | | | | |
| ASTMB923 | STANDARD TEST METHOD FOR METAL POWDER SKELETAL DENSITY BY HELIUM OR NITROGEN PYCNOMETRY | LOW | QUALIFIED | | | | | |

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|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ASTME10 | STANDARD TEST METHOD FOR BRINELL HARDNESS OF METALLIC MATERIALS | LOW | QUALIFIED | | 2024 | | | |
| ASTME1019 | STANDARD TEST METHOD FOR DETERMINATION OF CARBON SULFUR NITROGEN AND OXYGEN IN STEEL IRON NICKEL AND COBALT ALLOYS BY VARIOUS COMBUSTION AND FUSION TECHNIQUES | LOW | QUALIFIED | | 2025 | | | |
| ASTME1086 | STANDARD TEST METHOD FOR ANALYSIS OF AUSTENITIC STAINLESS STEEL BY SPARK ATOMIC EMISSION SPECTROMETRY | LOW | QUALIFIED | | 2025 | | | |
| ASTME112 | STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE | LOW | QUALIFIED | | 2025 | | | |
| ASTME1181 | STANDARD TEST METHODS FOR CHARACTERIZING DUPLEX GRAIN SIZES | LOW | QUALIFIED | | | | | |
| ASTME139 | STANDARD TEST METHODS FOR CONDUCTING CREEP CREEP-RUPTURE AND STRESS-RUPTURE TESTS OF METALLIC MATERIALS | LOW | QUALIFIED | | 2025 | | | |

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ASTME1409 | STANDARD TEST METHOD FOR DETERMINATION OF OXYGEN AND NITROGEN IN TITANIUM AND TITANIUM ALLOYS BY THE INERT GAS FUSION TECHNIQUE | LOW | QUALIFIED WITH LIMITATIONS | *NITROGEN DETECTION NOT INCLUDED | 2024 | | | |
| 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 WITH LIMITATIONS | *NITROGEN DETECTION NOT INCLUDED | 2024 | | | |
| ASTME18 | STANDARD TEST METHODS FOR ROCKWELL HARDNESS OF METALLIC MATERIALS | LOW | QUALIFIED WITH LIMITATIONS | INTERCHANGEABILITY PER 20955-ICY-CS NOTE- 2 WAYS WITH ISO6508 | 2025 | | | 26/10/2023 |
| ASTME1834 | STANDARD TEST METHOD FOR ANALYSIS OF NICKEL ALLOYS BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY | LOW | AUTHORISED TO PROCEED-30/04/2024 | | 2024 | | | 28/02/2024 |
| ASTME1941 | DETERMINATION OF CARBON IN REFRACTORY AND REACTIVE METALS AND THEIR ALLOYS BY COMBUSTION ANALYSIS | LOW | QUALIFIED WITH LIMITATIONS | *SULPHUR DETECTION CAPABILITY: HIGHER THAN 0.0010% | 2025 | | | |
| ASTME21 | STANDARD TEST METHODS FOR ELEVATED TEMPERATURE TENSION TESTS OF METALLIC MATERIALS | LOW | QUALIFIED | | 2025 | | | 11/05/2023 |

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|-------------------|-------------------------------------------------------------------------------------------------------------------------------|------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ASTME2371 | STANDARD TEST METHOD FOR ANALYSIS OF TITANIUM AND TITANIUM ALLOYS BY ATOMIC EMISSION PLASMA SPECTROMETRY | LOW | QUALIFIED | | 2024 | | | |
| ASTME2465 | STANDARD TEST METHOD FOR ANALYSIS OF NI-BASE ALLOYS BY WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY | LOW | AUTHORISED TO PROCEED-30/04/2024 | | 2024 | | | 28/02/2024 |
| ASTME3 | STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS | LOW | QUALIFIED WITH LIMITATIONS | - ELEMENT MATERIALS (15062, BOLSA CHICA SITE): LIMITED TO LONGITUDINAL POLISHING. / - ELEMENT MATERIALS (15678, GRAHAM STREET SITE): LIMITED TO METALLIC SPECIMEN MACHINING MADE FOR ELEMENT MATERIALS (15062 BOLSA CHICA SITE) | | | | |
| ASTME322 | STANDARD TEST METHOD FOR ANALYSIS OF LOW-ALLOY STEELS AND CAST IRONS BY WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY | LOW | QUALIFIED | | 2025 | | | |
| ASTME34 | STANDARD TEST METHODS FOR CHEMICAL ANALYSIS OF ALUMINUM AND ALUMINUM-BASE ALLOYS | LOW | AUTHORISED TO PROCEED-30/04/2024 | | 2024 | | | 28/02/2024 |
| ASTME340 | TEST METHODE FOR MACROETCHING OF METALS AND ALLOYS | LOW | QUALIFIED | | | | | |

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|-------------------|--------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ASTME384 | TEST METHODE FOR MICROHARDNESS OF MATERIALS | LOW | QUALIFIED | | 2025 | | | 20/10/2023 |
| ASTME399 | STANDARD TEST METHOD FOR PLAIN STRAIN FRACTURE TOUGHNESS OF METALLIC MATERIALS | HIGH | QUALIFIED | | 2024 | QCS221395 ISSUE 1 | | 16/01/2024 |
| ASTME407 | TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS | LOW | QUALIFIED | | | | | |
| ASTME415 | STANDARD TEST METHOD FOR ANALYSIS OF CARBON AND LOW-ALLOY STEEL BY SPARK ATOMIC EMISSION SPECTROMETRY | LOW | QUALIFIED | | 2025 | | | |
| ASTME45 | STANDARD TEST METHODS FOR DETERMINING THE INCLUSION CONTENT OF STEEL | LOW | QUALIFIED | | 2024 | | | |
| ASTME572 | STANDARD TEST METHOD FOR ANALYSIS OF STAINLESS AND ALLOY STEELS BY WAVELENGTH DISPERSIVE X-RAY FLUORESCENCE SPECTROMETRY | LOW | QUALIFIED | | 2025 | | | |

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|-------------------|---------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ASTME8 | STANDARD TEST METHODS FOR TENSION TESTING OF METALLIC MATERIALS | LOW | QUALIFIED | | 2025 | | | |
| ASTME9 | STANDARD TEST METHODS OF COMPRESSION TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE | LOW | QUALIFIED | | 2024 | | | |
| ASTME930 | STANDARD TEST METHODS FOR ESTIMATING THE LARGEST GRAIN OBSERVED IN A METALLOGRAPHIC SECTION (ALA GRAIN SIZE) | LOW | QUALIFIED | | | | | |
| ASTMG34 | STANDARD PRACTICE FOR EVALUATING EXFOLIATION CORROSION SUSCEPTIBILITY IN 2XXX AND 7XXX SERIES ALUMINUM ALLOYS | LOW | QUALIFIED | | | | | |
| ASTMG44 | STANDARD PRACTICE FOR EXPOSURE OF METALS AND ALLOYS BY ALTERNATE IMMERSION IN NEUTRAL 3.5% SODIUM CHLORIDE SOLUTION | HIGH | QUALIFIED | | 2024 | 240192 | | 27/03/2024 |
| ASTMG47 | STANDARD TEST METHOD FOR DETERMINING SUSCEPTIBILITY TO STRESS-CORROSION CRACKING OF 2XXX AND 7XXX ALUMINUM ALLOY PRODUCTS | HIGH | QUALIFIED | | 2024 | 240192 | | 27/03/2024 |

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|-------------------|---------------------------------------------------------------------------------------------|------------|----------------------------------|---------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ASTMG49 | STANDARD PRACTICE FOR PREPARATION AND USE OF DIRECT TENSION STRESS-CORROSION TEST SPECIMENS | HIGH | QUALIFIED | | 2024 | 240192 | | 27/03/2024 |
| ASTMG85 | STANDARD PRACTICE FOR MODIFIED SALT SPRAY (FOG) TESTING EXPERTISE: EDSWB / MAIN USER: EDSWO | LOW | QUALIFIED | | | | | |
| EN10276 | DETERMINATION FO OXYGENIN STEEL AND IRON. | LOW | QUALIFIED | | 2025 | | | 21/09/2023 |
| EN2002-1 | TENSILE TESTING AT AMBIENT TEMPERATURE | LOW | QUALIFIED WITH LIMITATIONS | INTERCHANGEABILITY PER 19772-ICY-CS NOTE- 2 WAYS WITH ASTM B 557 | 2025 | | | 01/09/2022 |
| EN2002-2 | TENSILE TESTING AT ELEVATED TEMPERATURE | LOW | AUTHORISED TO PROCEED-31/05/2024 | | 2024 | | | 28/02/2024 |
| EN2002-6 | METALLIC MATERIALS: BEND TESTING | LOW | QUALIFIED | | | | | |

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|-------------------|---------------------------------------------------------------------------------------------------------------------------|------------|----------------------|------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| EN2003-10 | AEROSPACE SERIES - TITANIUM AND TITANIUM ALLOYS - TEST METHODS - PART 010: SAMPLING FOR DETERMINATION OF HYDROGEN CONTENT | LOW | QUALIFIED | | 2024 | | | |
| EN2003-7 | AEROSPACE SERIES - TEST METHODS FOR METALLIC MATERIALS -PART 8 : MACROGRAPHIC TEST | NA | QUALIFIED | | | | | |
| EN2832 | HYDROGEN EMBRITTLMENT OF STEELS; NOTCHED SPECIMEN TEST | LOW | QUALIFIED | | 2025 | | | |
| EN6018 | DETERMINATION OF DENSITY ACCORDING TO DISPLACEMENT METHODE | LOW | QUALIFIED | | | | | |
| ISO148-1 | METALLIC MATERIAL - CHARPY PENDULUM IMPACT TEST | LOW | QUALIFIED | | 2025 | | | |
| ISO6507 | METALLIC MATERIALS - VICKERS HARDNESS TEST | LOW | QUALIFIED | | 2025 | | | |

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|-------------------|--------------------------------------------------------------|------------|----------------------|------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| ISO9227 | CORROSION TESTS IN ARTIFICIAL ATMOSPHERES - SALT SPRAY TESTS | LOW | QUALIFIED | | 2024 | | | |
| NASM1312-1 | FASTENER TEST METHODS SALT SPRAY | LOW | QUALIFIED | | | | | |
| NASM1312-10 | FASTENER TEST METHODS STRESS RUPTURE | LOW | QUALIFIED | | | | | |
| NASM1312-11 | FASTENER TEST METHODS TENSION FATIGUE | HIGH | QUALIFIED | | 2024 | 210997 | | 21/02/2023 |
| NASM1312-12 | FASTENER TEST METHODS THICKNESS OF METALLIC COATINGS | LOW | QUALIFIED | | | | | |
| NASM1312-13 | FASTENER TEST METHODS DOUBLE SHEAR TEST | LOW | QUALIFIED | | 2025 | | | 21/09/2023 |

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|-------------------|-------------------------------------------------------------------------|------------|----------------------|------------|-------------------------------------------------|-----------------------------------|---------------------|--------------------------------|
| NASM1312-14 | FASTENER TEST METHODS STRESS DURABILITY (INTERNALLY THREADED FASTENERS) | LOW | QUALIFIED | | | | | |
| NASM1312-18 | FASTENER TEST METHODS ELEVATED TEMPERATURE TENSILE STRENGTH | LOW | QUALIFIED | | | | | |
| NASM1312-20 | FASTENER TEST METHODS SINGLE SHEAR | LOW | QUALIFIED | | | | | |
| NASM1312-25 | FASTENER TEST METHODS DRIVING RECESS TORQUE QUALITY CONFORMANCE TEST | LOW | QUALIFIED | | | | | |
| NASM1312-3 | FASTENER TEST METHODS HUMIDITY | LOW | QUALIFIED | | | | | |
| NASM1312-31 | FASTENER TEST METHODS TORQUE | LOW | QUALIFIED | | | | | |

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| NASM1312-5 | FASTENER TEST METHODS STRESS DURABILITY | LOW | QUALIFIED | | | | | |
| NASM1312-6 | FASTENER TEST METHODS HARDNESS | LOW | QUALIFIED | | | | | |
| NASM1312-8 | FASTENER TEST METHODS TENSILE STRENGTH | LOW | QUALIFIED | | 2025 | | | 04/09/2023 |
| NASM1312-9 | FASTENER TEST METHODS STRESS CORROSION | LOW | QUALIFIED | | | | | |
| SAEAMS2315 | DETERMINATION OF DELTA FERRITE CONTENT | LOW | QUALIFIED | | | | | |

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| ISO2409 | PAINTS AND VARNISHES - CROSS-CUT TEST | LOW | WITHDRAWN | | 2023 | | | 12/02/2024 |
| ISO6508 | METALLIC MATERIALS - ROCKWELL HARDNESS TEST | LOW | WITHDRAWN | | 2024 | | | 26/10/2023 |

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