

2MATECH

24 av des Landais
BP 154
63173 AUBIERE CEDEX
France

FOR THE ATTENTION OF
Gilles CHAUSSE Responsable assurance Qualité
Vincent RAVEL Responsable Laboratoire

CERTIFICATE PREPARED BY
FARION Raïssa

YOUR QUALITY RESPONSIBLE DEPUTY
FARION Raïssa

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DATE
28/09/2017

OUR REFERENCE
SUR2017.0331 Ind. A

ARP-ID of the External Shop
276086

TYPE of External Shop
Independent

Attestation letter for Qualification on Test Methods

Dear Madam, Dear Sir,

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

The latest valid status of all qualified <Test Methods / External Shop> couples is published by regular QTML reports:

- On Airbus homepage for Suppliers (<http://www.airbus.com/tools/airbusfor/suppliers/>) - Only Independent Labs.
- On Airbus Supply Portal A2QS - All External Shops.

A qualified couple is not linked to a specific product. It is the proof that the External Shop is meeting the requirement of the AP5262: Qualification Process of Couples <Test Method / External Shop>.

We remind you that the maintenance of your Test Methods Qualification depends on your monitoring on quality and technical aspects and is surveyed by Airbus on a regular basis, every year or every 2 years.

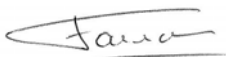
- On a quality aspect: we kindly ask you to indicate us any modification which could have a quality impact.
- Concerning technical requirements:
 - * We kindly ask you to participate at least every 2 years to the PTP organized by Exova for the tests you perform on Airbus Products (see Appendix for details on next PTP participation requirements).
You can find all necessary information about PTP participation process on the website: <https://ptp.exova.com>.
In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.
 - * On the other hand, you shall supply at least every 2 years the results of your Internal Homogeneity Studies per Test Families.

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
- Evidence non-compliance with the AP5262
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,

FARION Raïssa
TM Qualification Engineer - TM PO Central Team
Your Quality Responsible Deputy



MALHOMME Muriel
TM Qualification Manager - TM PO Central Team
Your Quality Responsible



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

APPENDIX: Matrix of qualified Couples <Test Methods / External Shop>

We hereby declare the External Shop:

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Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
AITM 3-0013	Testing of susceptibility to exfoliation corrosion in 2XXX and 7XXX series wrought aluminium alloy products	Low	Qualified		
ASTM A262	Standard practices for detecting susceptibility to intergranular attack in austenitic stainless steels	Low	Qualified		
ASTM E112	Determining average grain size	Low	Qualified	2019	Aluminium, Titane, Acier, Nickel, Cuivreux
ASTM E3	Standard guide for preparation of metallographic specimens	Low	Qualified		
ASTM E407	Microetching metals and alloys	Low	Qualified		
ASTM E8	Tension testing of metallic materials	Low	Authorised to Proceed December 2018	2018	Restriction: Not Qualified for Young's Modulus
ASTM G110	Evaluating intergranular corrosion resistance of heat treatable aluminium alloys by immersion in sodium chloride + hydrogen peroxide solution	Low	Qualified		Aluminium
ASTM G34	Exfoliation corrosion susceptibility in 2XXX and 7XXX series aluminum alloys (EXCO Test)	Low	Qualified		Aluminium
ASTM G67	Determining the susceptibility to intergranular corrosion of 5XXX series aluminium alloys by mass loss after exposure to nitric acid (NAMLT test)	Low	Qualified		
EN 2002-1 (ASTM E8 / ASTM B557)	Tensile testing at ambient temperature	Low	Authorised to Proceed December 2018	2018	Restriction: Not Qualified for Young's Modulus
EN 2003-9	Titanium and titanium alloys - Part 9: Determination of surface contamination (method A: Micrographic examination / Method B: Hardness testing)	Low	Qualified	2018	
EN 2716 (Pren)	Determination of susceptibility to intergranular corrosion - Wrought aluminium alloy products - AL-P2XXX-series, AL-P7XXX- series and aluminium-lithium alloys	Low	Qualified		
EN 3114	Microstructure of ($\alpha + \beta$) titanium alloy wrought products	Low	Qualified		Titane
ISO 1463	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method	Low	Qualified	2018	Tous types

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Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
ISO 3651-1	Determination of resistance to intergranular corrosion of stainless steels - Part 1: Austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in nitric acid medium by measurement of loss in mass (Huey test)	Low	Qualified		Aciers inoxydables
ISO 3651-2	Determination of resistance to intergranular corrosion of stainless steels - Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels - Corrosion test in media containing sulfuric acid	Low	Qualified		Aciers inoxydables
ISO 643	Steels - Micrographic determination of the apparent grain size	Low	Qualified	2019	Aluminium, Titane, Acier, Nickel, Cuivreux
ISO 6506 (ASTM E10)	Brinell hardness test	Low	Qualified	2019	Tous types
ISO 6507 (ASTM E92 historical)	Vickers hardness test	Low	Qualified	2019	Tous types
ISO 6508 (ASTM E18)	Rockwell hardness test	Low	Qualified	2019	Tous types
ISO 9220	Metallic coatings - Measurement of coating thickness - Scanning electron microscope method	Low	Qualified		
ISO 9227 (ASTM B117)	Corrosion tests in artificial atmospheres - Salt spray tests	Low	Qualified	2018	Tous types

* Unless otherwise specified, last issue of the standard shall apply.

** Next PTP participation year is given for information - It is the External Shop's responsibility to check every year on the PTP Website (<https://ptp.exova.com/>) which kits are proposed.