

2MATECH

19 avenue Blaise Pascal
Campus des Cézeaux
63170 AUBIERE
France

FOR THE ATTENTION OF

Khadija DAOUD Responsable Qualité Technique
Emmanuel DUC Managing director
Stéphane LADEVEZE Responsable qualité
Vincent RAVEL Ingénieur laboratoire

CERTIFICATE PREPARED BY
FARION Raïssa

YOUR QTML FOCAL POINT
FARION Raïssa

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DATE
16/09/2021

OUR REFERENCE
SUR2020.0167 Ind. C

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).

The latest valid status of all qualified <Test Methods / External Shop> 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 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 M20691.2: Perform Couple <Product/Supplier Site> Compliance and Maturity's Activities for Material Products Suppliers and/or M20691.3: Perform Couple <Product/Supplier Site> Compliance and Maturity's Activities for Aerostructure Parts Suppliers.

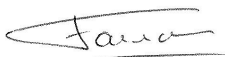
- On a quality aspect: we kindly ask you to indicate us any modification which could have a quality impact.
- Concerning technical requirements:
 - * We kindly ask you to participate at least every 2 years to the PTP for the tests you perform on Airbus Products (see Appendix for details on next PTP participation requirements).
You can find all necessary information about PTP participation process on the website: <https://ptpscheme.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In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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 M20691.2 and/or M20691.3
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,

FARION Raïssa
Airbus Test Methods Auditor POMDS – CE
Your QTML Focal Point



SAUX Alexandra
Test Methods Coordinator POMDS– CE
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. **	QCS Ref.	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 B117	Standard practice for operating salt spray (Fog) apparatus	Low	Qualified	2022		
ASTM B557	Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products	Low	Qualified	2023		
ASTM E10	Standard Test Method for Brinell Hardness of Metallic Materials	Low	Qualified	2023		
ASTM E112	Determining average grain size	Low	Qualified	2023		
ASTM E18	Standard Test Methods for Rockwell Hardness of Metallic Materials	Low	Qualified	2023		
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	Qualified	2023		
ASTM E92	Vickers Hardness and Knoop Hardness of Metallic Materials	Low	Qualified	2022		
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	Tensile testing at ambient temperature	Low	Qualified	2023		
EN 2003-9	Titanium and titanium alloys - Part 9: Determination of surface contamination (method A: Micrographic examination / Method B: Hardness testing)	Low	Qualified	2023		

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

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Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
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	2023		All material
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	2023		Aluminium, Titane, Acier, Nickel, Cuivreux
ISO 6506	Metallic materials - Brinell hardness test	Low	Qualified	2023		
ISO 6507	Metallic materials - Vickers hardness test	Low	Qualified	2022		
ISO 6508	Metallic materials - Rockwell hardness test	Low	Qualified	2023		
ISO 9220	Metallic coatings - Measurement of coating thickness - Scanning electron microscope method	Low	Qualified			
ISO 9227	Corrosion tests in artificial atmospheres - Salt spray tests	Low	Qualified	2022		

* 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://ptpscheme.com/>) which kits are proposed.