

EXOVA PLZEN

**Podnikatelská 39
301 00 Plzeň
Czech Republic**

FOR THE ATTENTION OF

Paul FOURNET General manager
TOMAS HALADI Quality assurance manager

**CERTIFICATE PREPARED BY
FARION Raïssa**

**YOUR QUALITY RESPONSIBLE DEPUTY
FARION Raïssa**

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**DATE
12/01/2018**

**OUR REFERENCE
SUR2017.0081 Ind. B**

**ARP-ID of the External Shop
304743**

**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.

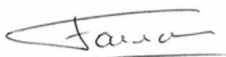
- On a quality aspect: we kindly ask you to indicate us any modification which could have a quality impact.
- Concerning technical requirements:
 - * We kindly ask you to participate at least every 2 years to the PTP organized by Exova for the tests you perform on Airbus Products (see Appendix for details 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In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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
ASTM A604 (EN 2003-7)	Macroetch testing of consumable electrode remelted steel bars and billets	Low	Qualified		
ASTM E112	Determining average grain size	Low	Qualified	2019	
ASTM E1181	Standard test methods for characterizing duplex grain sizes	High	Authorised to Proceed December 2018		Waiting Technical qualification (High complexity since December 2017)
ASTM E139	Creep, creep-rupture, and stress-rupture tests of metallic materials (Legacy programs only)	Low	Qualified	2019	
ASTM E1447	Determination of hydrogen in titanium and titanium alloys by inert gas fusion thermal conductivity / infrared detection method	Low	Qualified	2018	
ASTM E3	Standard guide for preparation of metallographic specimens	Low	Qualified		
ASTM E3	Standard guide for preparation of metallographic specimens	Low	Qualified		
ASTM E340	Macroetching metals and alloys	Low	Qualified		
ASTM E384	Microindentation hardness of materials	Low	Qualified	2018	
ASTM E399	Linear-elastic plane-strain fracture toughness K _{Ic} of metallic materials	High	Authorised to Proceed December 2017	2020	Pending QCS
ASTM E407	Microetching metals and alloys	Low	Qualified		
ASTM E45	Determining the inclusion content of steel	Low	Qualified	2019	
ASTM E8	Tension testing of metallic materials	Low	Qualified	2019	limitation: not qualified for Young Modulus
ASTM E930	Standard test methods for estimating the largest grain observed in a metallographic section (ALA grain size)	Low	Qualified		
EN 10247	Micrographic examination of the non-metallic inclusion content of steels using standard pictures	Low	Qualified	2019	
EN 2002-1 (ASTM B557)	Tensile testing at ambient temperature	Low	Qualified	2019	limitation: not qualified for Young Modulus
EN 2002-2	Tensile testing at elevated temperature	Low	Qualified	2018	Without Young Modulus Also according to ASTM E21

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Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
EN 6072	Constant amplitude fatigue testing (HCF)	High	Authorised to Proceed December 2017	2020	Pending QCS
EN 6072 (machining)	Fatigue test specimen machining (NADCAP test code O)		Authorised to Proceed December 2017		Pending QCS
ISO 148-1 (low temp.)	Charpy pendulum impact test (low temperature)	Low	Qualified	2018	
ISO 148-1 (room temp.)	Charpy pendulum impact test (ambient temperature)	Low	Qualified	2019	
ISO 527-5	Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites	Low	Qualified		
ISO 643	Steels - Micrographic determination of the apparent grain size	Low	Qualified	2019	
ISO 6506 (ASTM E10)	Brinell hardness test	Low	Qualified	2019	
ISO 6507 (ASTM E92)	Vickers hardness test	Low	Qualified	2019	
ISO 6508 (ASTM E18)	Rockwell hardness test	Low	Qualified	2019	
Z_IGF	Inert gas fusion		Qualified	2018	Ti based alloys
Z_Opt. metallo.	Optical metallography		Qualified		Various materials

* 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.