

**GMA-WERKSTOFFPRUEFUNG GMBH VAREL
BRANCH**

Riesweg 151
26316 VAREL
Germany

FOR THE ATTENTION OF

Klaus HOMBRINK Quality Assurance Manager
Detlef KOHRING Branch Manager / Mechanical Lab Manager
Tobias KRUSKA Chemical Lab Manager

CERTIFICATE PREPARED BY
BOUVIER Mélanie

YOUR QUALITY RESPONSIBLE DEPUTY
BOUVIER Mélanie

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DATE
22/01/2018

OUR REFERENCE
SUR2015.0044 Ind. F

ARP-ID of the External Shop
305222

TYPE of External Shop
Independent not referent

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In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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,

BOUVIER Mélanie
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 3-0029	Determination of iron (III) as reactive compound in acidic surface treatment baths	Low	Qualified	H+	
AITM 3-0030	Titration of sulphuric and tartaric acid in anodizing electrolytes	Low	Qualified	C4H6O6 / H2SO4	
AITM 3-0034	Combined determination of free hydroxide and aluminium in alkaline surface treatment baths	Low	Qualified	Al, OH-	
AITM 3-0035	Determination of chloride contaminations in surface treatment baths	Low	Qualified	Cl-	
AITM 3-0036	Determination of hydrogen ions in surface treatment baths	Low	Qualified	H+	
ASTM E3	Standard guide for preparation of metallographic specimens	Low	Qualified	Also according to QVA-Z10-54-00 (restricted to Legacy Programs)	
ASTM E340	Macroetching metals and alloys	Low	Qualified	Steel, Aluminium, Titanium, Beryllium-Copper	
ASTM E407	Microetching metals and alloys	Low	Qualified	Steel, Aluminium, Titanium, Beryllium-Copper	
ISO 1183-1	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method	Low	Qualified		
ISO 1518	Paints and varnishes - Scratch test	Low	Qualified		
ISO 4628-2	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 2: Assessment of degree of blistering	Low	Qualified		
QVA-Z09-07-36	Determination of Hydroxide in alkaline cleaning baths	Low	Qualified	Process baths Restricted to Legacy Programs	
QVA-Z09-19-01	Determination of the pH-value in Aqueous Media	Low	Qualified	Restricted to Legacy programs	
QVA-Z09-23-00	Determination of the Specific Conductivity in Aqueous Media	Low	Qualified	Restricted to Legacy programs	
QVA-Z09-25-00	Determination of removal rate of alkaline pickling baths	Low	Qualified	Restricted to Legacy programs	
QVA-Z10-53-00	Metallographic test - Macroscopic examination - General information	Low	Qualified	Restricted to Legacy programs	

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Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
Z_Other	Other test - Specify in Remark		Qualified		80-T-35-0020: Alkaline Cleaning (Tendency of the bath to produce pitting) Restricted to Legacy programs
Z_Other	Other test - Specify in Remark		Qualified		80-T-35-2010: Determination of the weight of the coating (chapter 6.1.1) Restricted to Legacy Programs

* 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.