

COTESA GMBH

**Bahnhofstr. 67
09648 MITTWEIDA
Germany**

FOR THE ATTENTION OF

Helvi KURZHALS-NIEDERSTADT Quality assurance manager
Jakob SCHULZ (Dr) Head of Materials Laboratory

**CERTIFICATE PREPARED BY
NUNEZ Cesar**

**YOUR QTML KEY CONTACT
NUNEZ Cesar**

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**PHONE
+33 6 77 98 01 23**

**DATE
01/12/2017**

**OUR REFERENCE
SUR2017.0416 Ind. A**

**ARP-ID of the External Shop
227930**

**TYPE of External Shop
Captive**

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case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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

NUNEZ Cesar
TM Qualification Engineer - TM PO Central Team
Your QTML Key Contact



MALHOMME Muriel
TM Qualification Manager - TM PO Central Team



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 1-0003	Determination of the glass transition temperatures (DMA)	High	Qualified	2019	QCS 131007
AITM 1-0007-A / B / C / D	Fibre reinforced plastics - Determination of plain, open hole and filled hole tensile strength	Low	Qualified	2019	
AITM 1-0008-B / C / D	Fiber reinforced plastics - Determination of open hole or filled hole compression strength	Low	Qualified		
AITM 1-0019	Determination of tensile lap shear strength of composite joints	Low	Qualified	2019	Also according to QVA-Z10-46-09
AITM 1-0024	Determination of the completeness of cure of organic coatings	Low	Qualified		
AITM 1-0053	Carbon fibre reinforced plastics - Determination of fracture toughness energy of bonded joints - Mode I - G1c	High	Qualified	2019	QCS160014
AITM 2-0061	Water pick up test-method to determine the impregnation level of prepreg materials	Low	Qualified		
AITM 3-0002	Analysis of non metallic material (uncured) by differential scanning calorimetry (DSC)	High	Qualified	2019	QCS101065
AITM 3-0008 (EN 6064)	Determination of the extent of cure by differential scanning calorimetry (DSC)	High	Qualified	2019	QCS101065
AITM 4-0005	Macroscopic and microscopic examination of fiber reinforced plastics	Low	Qualified		
AITM 7-0003	Sealants - Determination of application time of sealing materials	Low	Qualified		
EN 2243-1	Structural adhesives - Part 1: Single lap shear	Low	Qualified	2019	
EN 2243-3	Structural adhesives - Part 3: Peeling test metal-honeycomb core	Low	Qualified	2017	
EN 2243-3	Structural adhesives - Part 3: Peeling test metal-honeycomb core	Low	Qualified	2017	Also according to QVA-Z10-46-05
EN 2243-4	Structural adhesives - Part 4: Metal-honeycomb core flatwise tensile test	Low	Qualified	2017	
EN 2332	Textile glass fibre preimpregnates - Test method for the determination of the resin flow	Low	Qualified		
EN 2377 (ISO 14130)	Glass fibre reinforced plastics - Determination of apparent interlaminar shear strength	Low	Qualified		

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EN 2557	Carbon fibre preimpregnates - Determination of mass per unit area	Low	Qualified		
EN 2558	Carbon fibre preimpregnates - Determination of the volatile content	Low	Qualified		
EN 2559	Carbon fibre preimpregnates - Test method for the determination of the resin and fibre content and the mass of fibre per unit area	Low	Qualified		
EN 2560	Carbon fibre preimpregnates - Determination of the resin flow	Low	Qualified		
EN 2561	Carbon Fibre reinforced plastics - Unidirectional laminates - Tensile test parallel to the fibre direction	Low	Qualified	2019	
EN 2562	Carbon fibre reinforced plastics - Unidirectional laminates - Flexural test parallel to the fibre direction	Low	Qualified	2018	
EN 2563	Carbon fibre reinforced plastics - Unidirectional laminates - determination of apparent interlaminar shear strength	Low	Qualified	2019	
EN 2564	Carbon fibre laminates - Determination of the fibre, resin and void contents	Low	Qualified	2019	
EN 2597	Carbon Fibre reinforced plastics - Unidirectional laminates - Tensile test perpendicular to the fibre direction	Low	Qualified		
EN 2747	Glass fibre reinforced plastics - Tensile test	Low	Qualified		
EN 2850-B (Pren) (ISO 14126-2)	Carbon fibre thermosetting resin unidirectional laminates - Compression test parallel to fibre direction - Method B	Low	Qualified	2018	
ISO 2409	Paints and varnishes - Cross-cut test	Low	Qualified	2018	
ISO 2812-2	Paints and varnishes - Determination of resistance to liquids - Part 2: Water immersion method	Low	Qualified	2018	
ISO 604	Plastics - Determination of compressive properties	Low	Qualified		
Z_Comp. spec. machining	Composite specimen machining / cutting / tabbing		Qualified		
Z_Comp. spec. prod.	Composite specimen production		Qualified		

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Z_Other	Other test - Specify in Remark		Qualified		According to QVA-Z10-46-12, (Method A & C) Determination of the Laminate Fibre Content of Cured Fibre Compounds

* 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.