

**CANAGROSA LAB & SERVICES S.L.**

**Wilbur y Orville N° 15 ( Aeropolis)  
41300 LA RINCONADA, Sevilla  
Spain**

**FOR THE ATTENTION OF**

Salvador Alarcon de la Lastra Romero CEO  
Sergio Dominguez Operations Director  
Margarita Halcon Alvarez Quality Assurance Manager  
Maria de la Cruz Luque Laboratory Manager  
Laura MURUVE LUNA Quality and Environment

**CERTIFICATE PREPARED BY  
NUNEZ Cesar**

**YOUR QTML FOCAL POINT  
NUNEZ Cesar**

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

**DATE  
11/10/2018**

**OUR REFERENCE  
SUR2018.0059 Ind. D**

**ARP-ID of the External Shop  
292690**

**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 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 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In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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 AP5262
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,

**NUNEZ Cesar**

**Airbus Test Methods Auditor POMDT – CE  
Your QTML Focal Point**



**SAUX Alexandra**

**Test Methods Coordinator POMDT – 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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Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
AITM 1-0022	Wettability test	Low	Qualified			
AITM 1-0024	Determination of the completeness of cure of organic coatings	Low	Qualified			
AITM 1-0032	Determination of non hardening characteristic of sealant	Low	Qualified			
AITM 1-0033	Sealants: Determination of the curing rate of sealing materials	Low	Qualified			
AITM 1-0036	Sealants - Determination of assembly time	Low	Qualified			
AITM 1-0054	Determination of orange peel	Low	Qualified			
AITM 1-0070	Surface roughness measurements using surface stylus methods	Low	Qualified			
AITM 2-0027	Determination of colour differences	Low	Qualified			
AITM 2-0031	Determination of electrical resistivity by ohmic method	Low	Qualified			
AITM 2-0033	Sealants - Determination of slump	Low	Qualified			
AITM 2-0034	Sealants - Determination of tack-free time of sealing materials	Low	Qualified			
AITM 2-0055	NSA 307 110 - Hydraulic fluid monitoring prior to aircraft delivery	Low	Qualified			
AITM 3-0007	Drop (reaction) test on aluminium and aluminium alloys	Low	Qualified			
AITM 3-0015	Determination of phosphoric acid content	Low	Qualified			
AITM 3-0029	Determination of iron (III) as reactive compound in acidic surface treatment baths	Low	Qualified			
AITM 3-0030	Titration of sulphuric and tartaric acid in anodizing electrolytes	Low	Qualified			
AITM 3-0032	Analysis of metals in galvanic bathes by ICP-spectroscopy	Low	Qualified			
AITM 3-0034	Combined determination of free hydroxide and aluminium in alkaline surface treatment baths	Low	Qualified			

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

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AITM 3-0035	Determination of chloride contaminations in surface treatment baths	Low	Qualified			
AITM 3-0036	Determination of hydrogen ions in surface treatment baths	Low	Qualified			
AITM 3-0037	Determination of phosphoric and sulphuric acid in anodizing electrolytes	Low	Qualified			
AITM 3-0038	Determination of non-volatile-residue	Low	Qualified			
AITM 7-0003	Sealants - Determination of application time of sealing materials	Low	Qualified			
AITM 7-0008	Microbiological monitoring of TSA anodisation baths bait substrates	Low	Qualified			
AITM 7-0009	Detection of fungal contamination in TSA anodisation baths vitality test	Low	Qualified			
AITM 7-0010	Determination of microbiological contamination in aviation fuel	Low	Qualified			
ASTM B117	Standard practice for operating salt spray (Fog) apparatus	Low	Qualified	2019		
ASTM B487	Measurement of metal and oxide coating thicknesses by microscopical examination of a cross-section	Low	Qualified	2019		
ASTM D1125	Standard Test Methods for Electrical Conductivity and Resistivity of Water	Low	Qualified			
ASTM D2240	Rubber property - Durometer hardness	Low	Qualified			
ASTM D3359	Measuring adhesion by tape test	Low	Qualified			
ASTM D445	Kinematic viscosity of transparent and opaque liquids (and calculation of dynamic viscosity)	Low	Qualified			
ASTM D512	Chloride ion in water	Low	Qualified			
ASTM D523	Specular gloss	Low	Qualified			
ASTM D86	Distillation of petroleum products at atmospheric pressure	Low	Qualified			

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ASTM E1447	Determination of hydrogen in titanium and titanium alloys by inert gas fusion thermal conductivity / infrared detection method	Low	Authorised to Proceed March 2019	2019		
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	2019		
ASTM E407	Microetching metals and alloys	Low	Qualified			
ASTM F2111-A	Standard practice for measuring intergranular attack or end grain pitting on metals caused by aircraft chemical processes	Low	Qualified			Qualified on 11/10/2018
ASTM F519	Mechanical hydrogen embrittlement evaluation of plating/coating processes and service environments	Low	Qualified	2020		
ASTM G110	Evaluating intergranular corrosion resistance of heat treatable aluminium alloys by immersion in sodium chloride + hydrogen peroxide solution	Low	Qualified			
EN 2832	Hydrogen embrittlement of steel - Notched specimen test	Low	Qualified	2020		
EN 3665	Paints and varnishes - Filiform corrosion resistance test on aluminium alloys	Low	Qualified			Method A
ISO 1463	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method	Low	Qualified	2019		
ISO 1518	Paints and varnishes - Scratch test	Low	Qualified			
ISO 1519	Paints and varnishes - Bend test (cylindrical mandrel)	Low	Qualified			
ISO 2106	Anodizing of aluminium and its alloys - Determination of mass per unit area (surface density) of anodic oxidation coatings - Gravimetric method	Low	Qualified			
ISO 2143	Anodizing of aluminium and its alloys - Estimation of loss of absorptive power of anodic oxidation coatings after sealing - Dye-spot test with prior acid treatment	Low	Qualified			

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ISO 2360	Non-conductive coatings on non-magnetic electrically conductive basis materials - Measurement of coating thickness - Amplitude-sensitive eddy current method	Low	Qualified	2019		
ISO 2409	Paints and varnishes - Cross-cut test	Low	Qualified	2019		
ISO 2431	Paints and varnishes - Determination of flow time by use of flow cups	Low	Qualified			
ISO 2808	Paints and varnishes - Determination of film thickness	Low	Qualified	2019		
ISO 2811-1	Paints and varnishes - Determination of density - Part 1: Pycnometer method	Low	Qualified			
ISO 2812-2	Paints and varnishes - Determination of resistance to liquids - Part 2: Water immersion method	Low	Qualified	2019		
ISO 2813	Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°	Low	Qualified			
ISO 2819	Metallic coatings on metallic substrates - Electrodeposited and chemically deposited coatings - Review of methods available for testing adhesion	Low	Qualified			
ISO 3251	Paints, varnishes and plastics - Determination of non-volatile-matter content	Low	Qualified			
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			
ISO 3675	Crude petroleum and liquid petroleum products - Laboratory determination of density - Hydrometer method	Low	Qualified			
ISO 3696	Water for analytical laboratory use - Specification and test methods	Low	Qualified			
ISO 3887	Steels - Determination of depth of decarburization	Low	Qualified	2019		
ISO 4516	Metallic and other inorganic coatings - Vickers and Knoop microhardness tests	Low	Qualified	2019		

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ISO 6507 (ASTM E92)	Vickers hardness test	Low	Qualified	2019		According to ISO 6507-1, restricted to 0.01<load range<0.2 and 0.2<low force<0.5
ISO 6508 (ASTM E18)	Rockwell hardness test	Low	Qualified	2019		
ISO 758	Liquid chemical products for industrial use - Determination of density at 20 °C	Low	Qualified			
ISO 760	Determination of water - Karl Fischer method (General method)	Low	Qualified			
ISO 7619-1	Rubber, vulcanized or thermoplastic - Determination of indentation hardness - Part 1: Durometer method (Shore hardness)	Low	Qualified			
ISO 9227 (ASTM B117)	Corrosion tests in artificial atmospheres - Salt spray tests	Low	Qualified	2019		
ISO 9514	Paints and varnishes - Determination of the pot life of multicomponent coating systems - Preparation and conditioning of samples and guidelines for testing	Low	Qualified			
QVA-Z09-19-01	Determination of the pH-value in Aqueous Media	Low	Qualified			
QVA-Z09-20-00	Determination of Water Hardness	Low	Qualified			
QVA-Z09-22-00	Determination of Dry Residue	Low	Qualified			
QVA-Z09-23-00	Determination of the Specific Conductivity in Aqueous Media	Low	Qualified			
QVA-Z10-61-00	Determination of particle sizes	None	Qualified			
Z_Opt. metallo.	Optical metallography	None	Qualified			
Z_Other	Other test - Specify in Remark	None	Qualified			According to QVA-Z10-73-00

\* 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.