

**INCOTEST - A DIVISION OF SPECIAL METALS
WIGGIN LTD**

Holmer Road
HR4 9SL HEREFORD
United Kingdom

FOR THE ATTENTION OF

Peter SCRIMSHIRE Quality Manager
Jonathan SILK Quality Assurance Manager

FROM
BOUVIER Mélanie

DATE
24/10/2016

E-MAIL
melanie.bouvier.external@airbus.com

PHONE
+33 5 61 18 49 69

OUR REFERENCE
SUR2016.0515 Ind. B

ARP-ID of the External Shop
295929

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case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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

BOUVIER Mélanie
Test Methods Qualification Engineer - POMDT



MALHOMME Muriel
Test Methods Qualification Manager - POMDT



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

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

We hereby declare the External Shop:

INCOTEST - A DIVISION OF SPECIAL METALS
WIGGIN LTD

Holmer Road
 HR4 9SL HEREFORD
 United Kingdom

FROM
 BOUVIER Mélanie
DATE
 24/10/2016
OUR REFERENCE
 SUR2016.0515 Ind. B
ARP-ID of the External Shop
 295929
TYPE of External Shop
 Independent

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
	Combustion (method to be defined)		Qualified	2017	
	Analysis by spectrometry (others)		Qualified	2017	
	Metallic specimen preparation (for mechanical testing) (method to be defined)		Qualified		
	Inert gas fusion (method to be defined)		Qualified	2017	
AMS 2315	Determination of delta ferrite content		Qualified		
ASTM E112	Determining average grain size	Low	Qualified	2018	
ASTM E139	Creep, creep-rupture, and stress-rupture tests of metallic materials (Legacy programs only)	Low	Qualified	2016	
ASTM E1409	Determination of oxygen and nitrogen in titanium and titanium alloys by the inert gas fusion technique	Low	Qualified	2017	
ASTM E1447	Determination of hydrogen in titanium and titanium alloys by inert gas fusion thermal conductivity / infrared detection method	Low	Qualified	2017	
ASTM E1941	Determination of carbon in refractory and reactive metals and their alloys by combustion analysis	Low	Qualified	2017	
ASTM E2371	Analysis of Titanium and Titanium alloys by atomic emission plasma spectrometry	Low	Qualified	2017	
ASTM E384	Microindentation hardness of materials	Low	Qualified	2018	
ASTM E407	Microetching metals and alloys	Low	Qualified		
ASTM E45	Determining the inclusion content of steel	Low	Qualified	2018	
ASTM E572 / ASTM E2465	Analysis of stainless and alloy steels by X-ray fluorescence spectrometry / Analysis of Ni-base alloys by X-ray fluorescence spectrometry		Qualified	2017	
EN 10276	Chemical analysis of ferrous materials - Determination of oxygen in steel and iron	Low	Qualified	2017	
EN 2002-1 (ASTM E8 / ASTM B557)	Tensile testing at ambient temperature	Low	Authorised to Proceed December 2017	2017	Without Young's Modulus

© Airbus SAS, 2014. All rights reserved. Confidential and proprietary document. This document and all information contained herein is the sole property of Airbus SAS. No intellectual property rights are granted by the delivery of this document or the disclosure of its content. This document shall not be reproduced or disclosed to a third party without the express written consent of Airbus SAS. This document and its content shall not be used for any purpose other than that for which it is supplied.

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

We hereby declare the External Shop:

INCOTEST - A DIVISION OF SPECIAL METALS
WIGGIN LTD

Holmer Road
 HR4 9SL HEREFORD
 United Kingdom

FROM
 BOUVIER Mélanie
 DATE
 24/10/2016
 OUR REFERENCE
 SUR2016.0515 Ind. B
 ARP-ID of the External Shop
 295929
 TYPE of External Shop
 Independent

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
EN 2002-2	Tensile testing at elevated temperature	Low	Qualified	2018	Without Young's Modulus
EN 2003-9	Titanium and titanium alloys - Part 9: Determination of surface contamination (method A: Micrographic examination / Method B: Hardness testing)	Low	Qualified	2018	
EN 3114	Microstructure of ($\alpha + \beta$) titanium alloy wrought products	Low	Qualified		
EN 3683	Titanium alloy wrought products - Determination of primary α content - Point count method and line intercept method	Low	Qualified	2017	
EN 3684	Titanium alloy wrought products - Determination of β transus temperature - Metallographic method	Low	Qualified		
EN 3976	Titanium and titanium alloys - Chemical analysis for the determination of hydrogen content	Low	Qualified	2017	
ISO 148-1 (ASTM E23)	Charpy pendulum impact test (low temperature)	Low	Authorised to Proceed December 2017	2017	
ISO 148-1 (ASTM E23)	Charpy pendulum impact test (ambient temperature)	Low	Authorised to Proceed December 2017	2017	
ISO 4516	Metallic and other inorganic coatings - Vickers and Knoop microhardness tests	Low	Qualified	2018	
ISO 643	Steels - Micrographic determination of the apparent grain size	Low	Qualified	2018	
ISO 6506 (ASTM E10)	Brinell hardness test	Low	Qualified	2018	
ISO 6507 (ASTM E92 historical)	Vickers hardness test	Low	Qualified	2018	
ISO 6508 (ASTM E18)	Rockwell hardness test	Low	Qualified	2018	
ISO 671	Steel and cast iron - Determination of sulphur content - Combustion titrimetric method		Qualified	2017	

* 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.